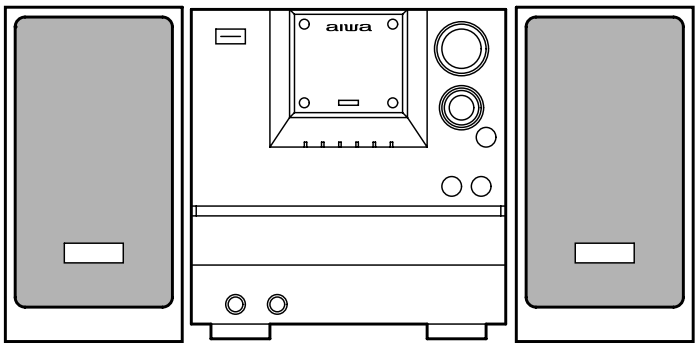
aiwa SERVICE

XS-DV335 EZ, K



SERVICE MANUAL

DVD STEREO SYSTEM BASIC DVD MECHANISM : BZG-9 ZWE

SYSTEM	DVD RECEIVER	SPEAKER	REMOTE CONTROLLER
XS–DV335	CX–GDV335	SX–GDV335	RC–BAS12

- If requiring information about the DVD mechanisim, see Service Manual of BZG-9, (S/M Code No. 09-018-357-9N2).

aiwa

S/M Code No. 09-01A-446-3R1

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SPECIFICATIONS

MAIN UNIT CX-GDV335

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 ohms (unbalanced)
MW tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
MW usable sensitivity	350 μV/m
LW tuning range	144 kHz to 290 kHz
LW usable sensitivity	1400 μV/m
MW/LW antenna	Loop antenna

AMPLIFIER

Power output	**Front:** Rated: 60 W + 60 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 75 W + 75 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) **<EZ only>** DIN MUSIC POWER: 90 W + 90 W **Rear (Surround):** Rated: 20 W + 20 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 25 W + 25 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) **<EZ only>** DIN MUSIC POWER: 35 W + 35 W **Center:** Rated: 20 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 25 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) **<EZ only>** DIN MUSIC POWER: 35 W
Total harmonic distortion	0.1 % (20 W, 1 kHz, 6 ohms, DIN AUDIO/Front)
Input	MIC: 1.0 mV (10 kohms) VIDEO/AUX: 300 mV (adjustable) MD: 300 mV (adjustable)
Output	FRONT SPEAKERS: 6 ohms or more SURROUND SPEAKERS: 8 ohms to 16 ohms CENTER SPEAKER: 8 ohms or more SUB WOOFER: 1 V LINE OUT: 210 mV DIGITAL AUDIO OUT (OPTICAL) PHONES: 32 ohms or more

DISC PLAYER

Laser	Semiconductor laser (DVD video discs λ = 650 nm, CDs λ = 780 nm)
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Signal format	PAL colour system
S-VIDEO OUT (S1)	Y output: 1 Vp-p (75 ohms, unbalanced) C output: 0.286 Vp-p
VIDEO OUT	Video composite output, 1 Vp-p (75 ohms, unbalanced), one RCA jack
OUT (TV)	Video composite output, 1 Vp-p (75 ohms, unbalanced)
Operating conditions	5 °C to 35 °C (41 °F to 95 °F)

GENERAL

Power requirements	230 V AC, 50 Hz
Power consumption	210 W
Standby power consumption	
	ECO ON: 0.6 W
	ECO OFF: 30 W
Dimensions (W x H x D)	260 x 266 x 350 mm
Weight	9.8 kg

FIVE SURROUND SPEAKERS SYSTEM SX-GDV335

(Front, surround and center speakers)

Speaker system	1 way, (magnetic shielded*)
Speaker units	80 mm cone
Impedance	Front: 6 ohms Surround: 8 ohms Center: 8 ohms
Dimensions (W x H x D)	100 x 220 x 115 mm (with pedestal) 100 x 110 x 115 mm (without pedestal)
Weight:	0.55 kg

* The surround speakers are not magnetic shielded.

- Design and specifications are subject to change without notice.

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- Manufactured under license from Dolby Laboratories Licensing Corporation.
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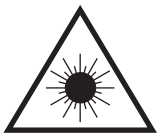
ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-DJW-916-110		IB,EZ(ESFGN)I<EZ>
1	8B-DJW-917-110		IB,EZ(ICMP)I<EZ>
1	8B-DJW-915-010		IB,K(E)I<K>
2	87-006-268-010		ANT,LOOP AM
3	87-A90-118-010		ANT,WIRE FM(Z)
4	87-A80-167-010		CORD,PIN 1PY 150CM
⚠ 5	87-099-811-010		PLUG,ADPTR CONV(K)<K>
6	8B-DJW-702-010		RC UNIT,RC-BAS12

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

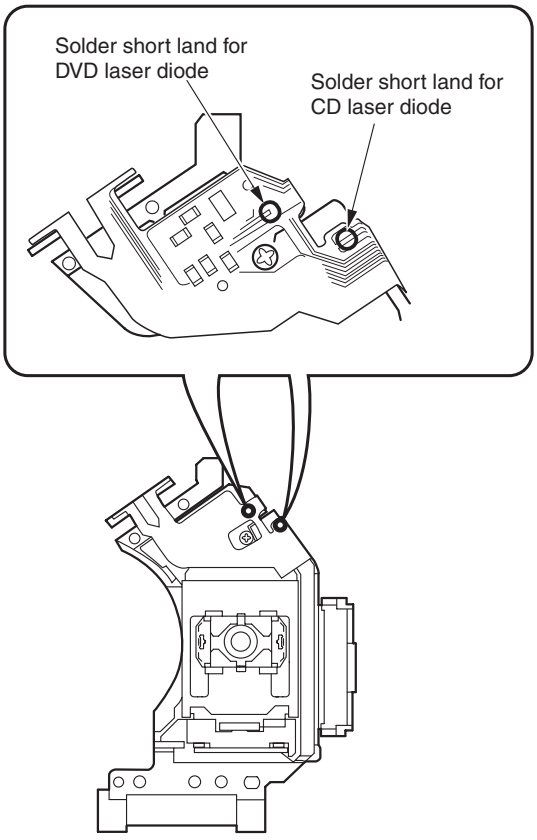
Precaution to replace Optical block

(SF – HD3AV2)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICKUP Assy PWB



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

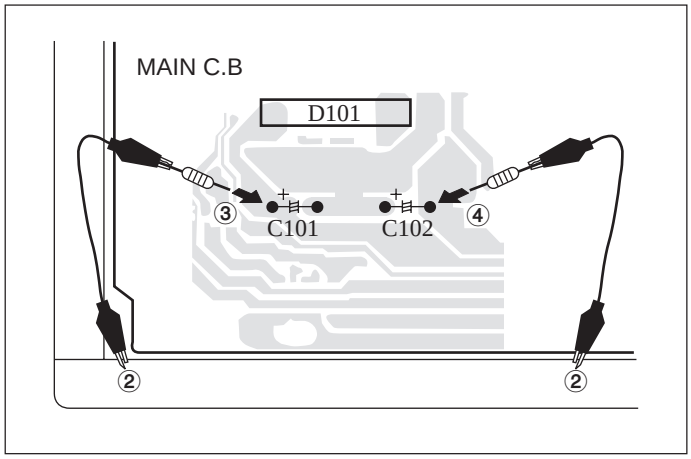


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

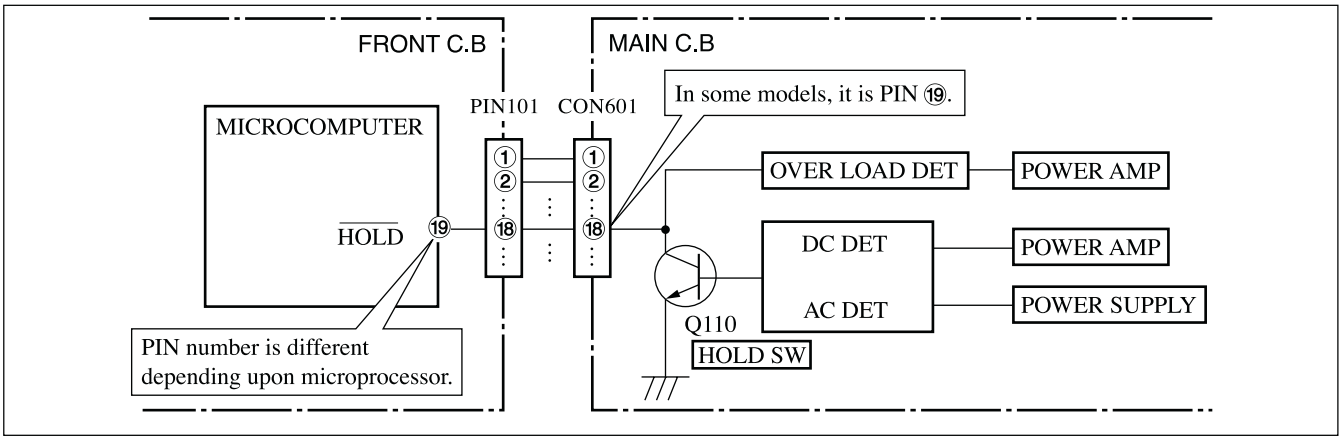


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

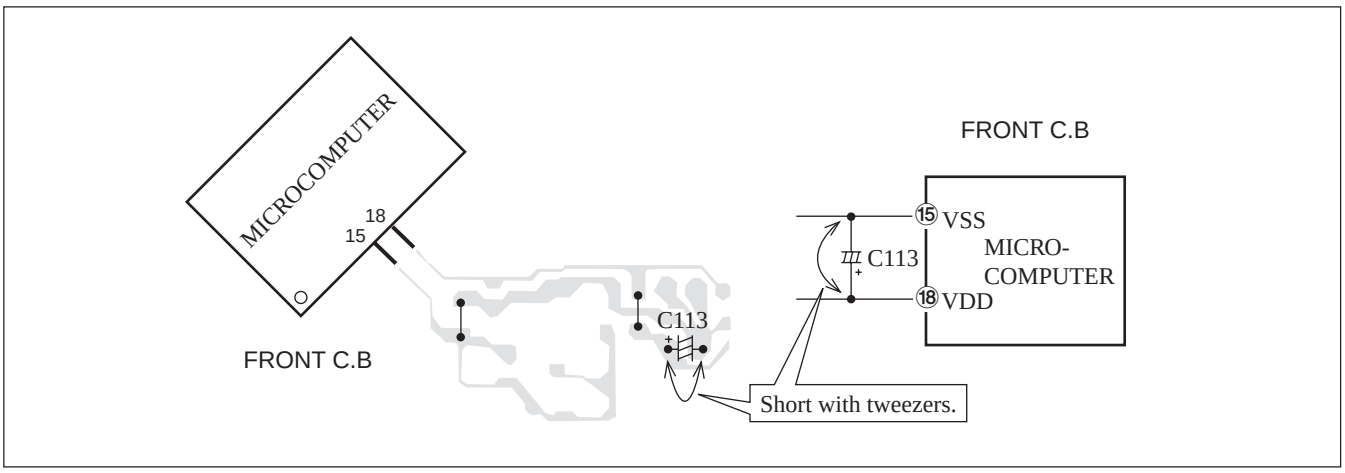


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

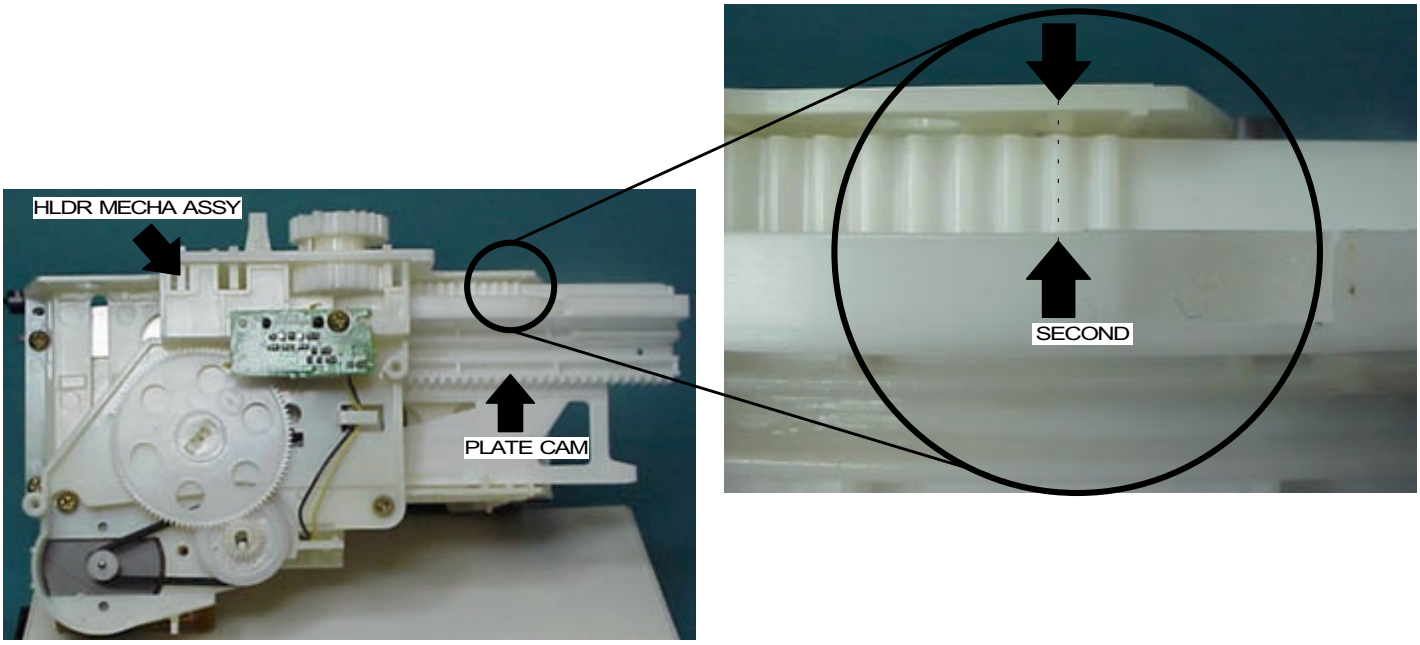
2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

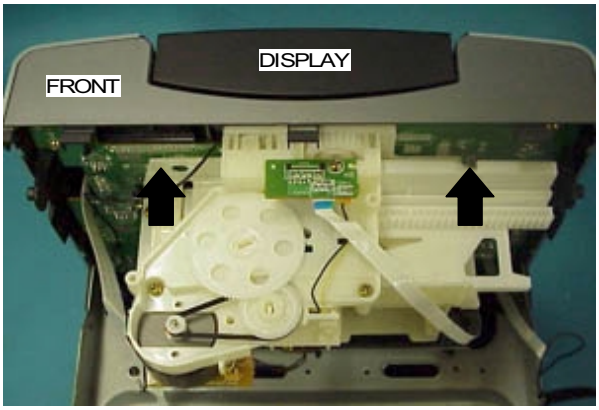
DISASSEMBLY INSTRUCTIONS

Assembling HLDR MECHA ASSY

1. Join the PLATE MAIN CAM to the HLDR MECHA ASSY as shown in the pictures below:



2. Join the HLDR MECHA ASSY to the FRONT portion, keeping the main unit DISPLAY portion lower.



* Adjusting phases is not required in HLDR MECHA ASSY.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8B-DJW-621-030		C-IC,LC877256V-5W18
	87-A21-831-010		IC,SPS-422-1-F1
	87-A21-018-040		C-IC,M65849BFP631D
	87-070-289-040		C-IC,BU2092F
	87-A21-882-030		C-IC,M62466FP
	87-A21-021-040		C-IC,BU2099FV
	87-A21-023-040		C-IC,BA3835F
	87-A21-695-010		IC,LA1845L
	87-A20-440-040		C-IC,BU1920FS
	87-A21-928-010		IC,LC72131D-N
TRANSISTOR			
	87-A30-559-010		TR,CSB1370EF
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-495-080		TR,2SA1981Y
	87-A30-257-080		C-TR,2SD1306E
	87-A30-636-040		C-TR,SBT5551F
	87-A30-190-080		TR,CC5551
	87-A30-086-040		C-TR,CSD1306E
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-635-040		C-TR,SBT5401F
	87-A30-494-080		TR,2SA1980G
	87-A30-087-080		C-FET,2SK2158
	87-A30-490-080		C-TR,KRC107S
	87-A30-047-080		TR,CSD655E
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-484-080		C-TR,KRA102S
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-529-010		TR,2SD2642
	87-A30-528-010		TR,2SB1686
	87-A30-162-010		FET,2SK2937
	87-A30-520-080		TR,2SC5342Y
	87-A30-515-080		TR,2SA1979O/Y
	87-A30-086-070		C-TR,CSD1306E
	87-A30-063-080		C-TR,KRA104S
	89-327-143-080		C-TR,2SC2714O
	87-A30-489-080		C-TR,KRA107S
	89-503-602-080		C-FET,2SK360E
	87-A30-234-080		TR,CSC4115BC
DIODE			
	87-A40-291-080		DIODE,1N4148(CPT)
	87-A40-839-090		DIODE,G5SBA60L-6088
	87-A40-838-090		DIODE,G3SBA60L-6088
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-488-080		DIODE,1SS244
	87-A40-748-080		ZENER,UZ5.6BSA
	87-A40-749-080		ZENER,UZ5.6BSB
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-393-090		DIODE,1N5402GW(F20)
	87-A40-745-080		ZENER,UZ4.7BSA
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C5	87-012-368-080		C-CAP,S 0.1-50 F
C6	87-012-368-080		C-CAP,S 0.1-50 F
C7	87-012-368-080		C-CAP,S 0.1-50 F
C8	87-012-368-080		C-CAP,S 0.1-50 F
C9	87-012-368-080		C-CAP,S 0.1-50 F
C10	87-012-368-080		C-CAP,S 0.1-50 F
C11	87-012-368-080		C-CAP,S 0.1-50 F
C12	87-012-368-080		C-CAP,S 0.1-50 F
C21	87-A12-780-090		CAP,E 4700-35 M 85 SKR
C22	87-A12-780-090		CAP,E 4700-35 M 85 SKR
C23	87-A12-779-090		CAP,E 3300-50 M 85 SKR
C24	87-A12-779-090		CAP,E 3300-50 M 85 SKR
C32	87-012-286-080		CAP,U 0.01-25
C34	87-A12-095-080		CAP,E 100-50 SMG
C35	87-A12-076-080		CAP,E 22-35 SMG
C36	87-A12-068-080		CAP,E 470-16 SMG
C40	87-012-286-080		CAP,U 0.01-25
C41	87-A10-831-080		CAP,E 1000-25 M SMG
C60	87-A12-089-080		CAP,E 3.3-50 SMG
C63	87-A12-071-080		CAP,E 47-25 SMG
C81	87-A10-918-080		CAP,E 100-16 SMG
C101	87-A12-090-080		CAP,E 4.7-50 SMG
C102	87-A12-090-080		CAP,E 4.7-50 SMG
C111	87-010-495-040		CAP,E 2.2-50 GAS
C112	87-010-495-040		CAP,E 2.2-50 GAS
C113	87-A12-075-080		CAP,E 10-35 SMG
C114	87-A12-091-080		CAP,E 10-50 SMG
C121	87-010-495-040		CAP,E 2.2-50 GAS
C122	87-010-493-040		CAP,E 0.47-50 GAS
C141	87-010-191-080		C-CAP,S 0.015-50 F
C142	87-010-191-080		C-CAP,S 0.015-50 F
C145	87-012-368-080		C-CAP,S 0.1-50 F
C146	87-012-368-080		C-CAP,S 0.1-50 F
C147	87-012-368-080		C-CAP,S 0.1-50 F
C148	87-012-368-080		C-CAP,S 0.1-50 F
C149	87-010-190-080		S CHIP F,0.01
C150	87-010-190-080		S CHIP F,0.01
C156	87-012-274-080		CHIP CAP,U 1000P-50B
C170	87-012-278-080		C-CAP,U 2200P-50 B
C171	87-012-282-080		CAP,U 4700P-50
C173	87-010-759-080		C-CAP,U 0.1-25F
C201	87-012-281-080		C-CAP,U 3900P-50 B
C202	87-012-281-080		C-CAP,U 3900P-50 B
C203	87-A12-085-080		CAP,E 0.33-50 SMG
C204	87-A12-085-080		CAP,E 0.33-50 SMG
C205	87-012-282-080		CAP,U 4700P-50
C206	87-012-282-080		CAP,U 4700P-50
C207	87-A12-090-080		CAP,E 4.7-50 SMG
C208	87-A12-090-080		CAP,E 4.7-50 SMG
C209	87-016-615-080		C-CAP,U 2.2P-50CH
C210	87-016-615-080		C-CAP,U 2.2P-50CH
C211	87-A12-078-080		CAP,E 47-35 SMG
C212	87-A12-078-080		CAP,E 47-35 SMG
C215	87-012-273-080		C-CAP,U 820P-50 B
C216	87-012-273-080		C-CAP,U 820P-50 B
C217	87-A10-596-080		C-CAP,S 100P-100 J CH
C218	87-A10-596-080		C-CAP,S 100P-100 J CH
C219	87-012-368-080		C-CAP,S 0.1-50 F
C220	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-012-286-080		CAP,U 0.01-25
C222	87-012-286-080		CAP,U 0.01-25
C223	87-A10-596-080		C-CAP,S 100P-100 J CH
C224	87-A10-596-080		C-CAP,S 100P-100 J CH
C273	87-010-759-080		C-CAP,U 0.1-25F
C274	87-A12-091-080		CAP,E 10-50 SMG
C275	87-A12-091-080		CAP,E 10-50 SMG
C580	87-016-369-080		C-CAP,S 0.033-25 B K
C581	87-012-199-080		CAP,220P
C582	87-012-274-080		CHIP CAP,U 1000P-50B
C583	87-010-759-080		C-CAP,U 0.1-25F
C584	87-012-274-080		CHIP CAP,U 1000P-50B
C585	87-010-759-080		C-CAP,U 0.1-25F
C586	87-010-405-010		CAP,E 10-50 SME
C603	87-010-319-080		C-CAP,S 56P-50 JCH
C604	87-010-319-080		C-CAP,S 56P-50 JCH
C607	87-010-319-080		C-CAP,S 56P-50 JCH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C608	87-010-319-080		C-CAP,S 56P-50 JCH
C619	87-012-368-080		C-CAP,S 0.1-50 ZF
C620	87-010-260-080		CAP,ELECT 47-25V
C633	87-012-281-080		C-CAP,U 3900P-50 B
C634	87-016-369-080		C-CAP,S 0.033-25 B K
C635	87-012-281-080		C-CAP,U 3900P-50 B
C636	87-016-369-080		C-CAP,S 0.033-25 B K
C637	87-A12-088-080		CAP,E 2.2-50 SMG
C638	87-A12-088-080		CAP,E 2.2-50 SMG
C639	87-A12-088-080		CAP,E 2.2-50 SMG
C640	87-A12-088-080		CAP,E 2.2-50 SMG
C641	87-012-280-080		CAP,U 3300P-50
C642	87-010-757-080		C-CAP,U 0.047-25F
C643	87-016-114-080		C-CAP,U 0.01-25B
C644	87-016-114-080		C-CAP,U 0.01-25B
C645	87-016-114-080		C-CAP,U 0.01-25B
C646	87-016-114-080		C-CAP,U 0.01-25B
C647	87-A12-309-080		C-CAP,U 680P-50 J CH
C648	87-A12-309-080		C-CAP,U 680P-50 J CH
C649	87-A10-260-080		C-CAP,U 0.1-16 K B
C650	87-016-118-080		C-CAP,U 0.022-25BJ
C651	87-016-118-080		C-CAP,U 0.022-25BJ
C652	87-A10-260-080		C-CAP,U 0.1-16 K B
C653	87-A10-260-080		C-CAP,U 0.1-16 K B
C654	87-016-397-080		C-CAP,U 0.047-16BJ
C655	87-016-397-080		C-CAP,U 0.047-16BJ
C656	87-A10-260-080		C-CAP,U 0.1-16 K B
C657	87-016-460-080		C-CAP,S 0.22-16 B
C658	87-016-460-080		C-CAP,S 0.22-16 B
C659	87-016-469-080		CAP,E 6.8-50 5L
C660	87-A12-090-080		CAP,E 4.7-50 SMG
C661	87-016-460-080		C-CAP,S 0.22-16 B
C662	87-016-460-080		C-CAP,S 0.22-16 B
C663	87-A10-799-080		C-CAP,S 5600P-16 J B CM
C664	87-016-397-080		C-CAP,U 0.047-16BJ
C665	87-A10-230-080		C-CAP,S 0.68-25 Z F
C666	87-A11-183-080		C-CAP,S 0.12-16 J B
C667	87-010-560-040		CAP,E 10-50 GAS
C668	87-010-560-040		CAP,E 10-50 GAS
C669	87-010-494-040		CAP,E 1-50 GAS
C670	87-010-494-040		CAP,E 1-50 GAS
C675	87-012-282-080		CAP,U 4700P-50
C676	87-012-282-080		CAP,U 4700P-50
C683	87-010-189-080		C-CAP,S 8200P-50 B
C684	87-A12-075-080		CAP,E 10-35 SMG
C685	87-012-167-080		C-CAP,U 5P-50 CH
C686	87-010-759-080		C-CAP,U 0.1-25F
C687	87-010-759-080		C-CAP,U 0.1-25F
C688	87-A12-062-080		CAP,E 100-10 SMG
C689	87-A12-058-080		CAP,E 470-6.3 SMG
C701	87-012-195-080		C-CAP,U 100P-50CH
C702	87-012-195-080		C-CAP,U 100P-50CH
C703	87-012-286-080		CAP,U 0.01-25
C707	87-A12-088-080		CAP,E 2.2-50 SMG
C708	87-A12-088-080		CAP,E 2.2-50 SMG
C771	87-A12-062-080		CAP,E 100-10 SMG
C772	87-012-286-080		CAP,U 0.01-25
C779	87-010-180-080		C-CER,1500P
C780	87-010-180-080		C-CER,1500P
C782	87-012-286-080		CAP,U 0.01-25
C783	87-012-286-080		CAP,U 0.01-25
C784	87-012-286-080		CAP,U 0.01-25
C785	87-012-286-080		CAP,U 0.01-25
C786	87-012-286-080		CAP,U 0.01-25
C788	87-012-167-080		C-CAP,U 5P-50 CH
C789	87-016-118-080		C-CAP,U 0.022-25BJ
C790	87-016-118-080		C-CAP,U 0.022-25BJ
C791	87-010-831-080		C-CAP,U 0.1-16F
C792	87-012-286-080		CAP,U 0.01-25
C793	87-A12-090-080		CAP,E 4.7-50 SMG

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C795	87-012-286-080		CAP,U 0.01-25
C796	87-012-286-080		CAP,U 0.01-25
C797	87-A12-091-080		CAP,E 10-50 SMG
C798	87-012-286-080		CAP,U 0.01-25
C799	87-A12-065-080		CAP,E 33-16 SMG
C800	87-010-829-080		CAP,U 0.047-16
C801	87-A12-089-080		CAP,E 3.3-50 SMG
C802	87-010-829-080		CAP,U 0.047-16
C803	87-010-787-080		CAP,U 0.022-25
C804	87-A12-062-080		CAP,E 100-10 SMG
C807	87-A12-086-080		CAP,E 0.47-50 SMG
C808	87-A12-087-080		CAP,E 1-50 SMG
C809	87-A12-087-080		CAP,E 1-50 SMG
C810	87-010-831-080		C-CAP,U 0.1-16F
C814	87-012-286-080		CAP,U 0.01-25
C815	87-A12-086-080		CAP,E 0.47-50 SMG
C816	87-A12-086-080		CAP,E 0.47-50 SMG
C818	87-012-276-080		CAP,CHIP SS 1500P PBK
C821	87-A12-091-080		CAP,E 10-50 SMG
C823	87-A10-915-080		C-CAP,U 1000P-25 J CH
C824	87-A12-090-080		CAP,E 4.7-50 SMG
C825	87-010-596-080		CAP,S 0.047-16
C831	87-A12-092-080		CAP,E 22-50 SMG
C842	87-012-286-080		CAP,U 0.01-25
C843	87-012-286-080		CAP,U 0.01-25
C844	87-012-286-080		CAP,U 0.01-25
C845	87-012-286-080		CAP,U 0.01-25
C846	87-012-286-080		CAP,U 0.01-25
C847	87-010-197-080		CAP,CHIP 0.01 DM
C848	87-010-197-080		CAP,CHIP 0.01 DM
C849	87-012-286-080		CAP,U 0.01-25
C850	87-A12-071-080		CAP,E 47-25 SMG
C851	87-012-286-080		CAP,U 0.01-25
C852	87-012-286-080		CAP,U 0.01-25
C853	87-012-286-080		CAP,U 0.01-25
C858	87-010-831-080		C-CAP,U 0.1-16F
C859	87-010-831-080		C-CAP,U 0.1-16F
C860	87-012-286-080		CAP,U 0.01-25
C869	87-012-286-080		CAP,U 0.01-25
C870	87-012-274-080		CHIP CAP,U 1000P-50B
C871	87-012-199-080		CAP,220P
C872	87-012-199-080		CAP,220P
C873	87-A10-039-080		C-CAP,U 470P-50 J CH
C874	87-A12-091-080		CAP,E 10-50 SMG
C875	87-010-759-080		C-CAP,U 0.1-25F
C876	87-A12-091-080		CAP,E 10-50 SMG
C877	87-012-286-080		CAP,U 0.01-25
C878	87-012-184-080		C-CAP,U 33P-50 CH
C879	87-012-180-080		C-CAP,U 22P-50 CH
C940	87-012-286-080		CAP,U 0.01-25
C942	87-012-165-080		C-CAP,U 3P-50 C CH
C947	87-012-286-080		CAP,U 0.01-25
C948	87-A10-039-080		C-CAP,U 470P-50 J CH
C952	87-012-286-080		CAP,U 0.01-25
C957	87-012-174-080		CAP,CHIP CERA SS 12P CHJ
C958	87-012-286-080		CAP,U 0.01-25
C959	87-010-831-080		C-CAP,U 0.1-16F
C960	87-010-831-080		C-CAP,U 0.1-16F
C962	87-A12-087-080		CAP,E 1-50 SMG
C963	87-015-785-080		CHIP CAPACITOR,0.1FZ-25Z
C971	87-A12-067-080		CAP,E 330-16 SMG
C972	87-A12-090-080		CAP,E 4.7-50 SMG
C973	87-012-286-080		CAP,U 0.01-25
C974	87-012-286-080		CAP,U 0.01-25
C979	87-012-195-080		C-CAP,U 100P-50CH
C981	87-A12-071-080		CAP,E 47-25 SMG
C982	87-010-831-080		C-CAP,U 0.1-16F
C983	87-012-286-080		CAP,U 0.01-25
C984	87-012-286-080		CAP,U 0.01-25
C985	87-012-195-080		C-CAP,U 100P-50CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C987	87-012-286-080		CAP,U 0.01-25
C989	87-012-286-080		CAP,U 0.01-25
C991	87-012-176-080		CAP,15P
C992	87-012-176-080		CAP,15P
C993	87-012-274-080		CHIP CAP,U 1000P-50B
C995	87-012-274-080		CHIP CAP,U 1000P-50B
C997	87-010-831-080		C-CAP,U 0.1-16F
C998	87-A12-071-080		CAP,E 47-25 SMG
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-423-010		FLTR,CF SFE10.7MS3G-A
CF832	82-785-747-010		CF,MS2 GHY R
CN105	87-099-196-010		CONN,8P 6216 V
CN183	87-099-564-010		CONN,4P TUC-P4P-B1
CN551	87-099-668-010		CONN,9P TUC-P 9P-B1
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN603	87-099-013-010		CONN,11P 6216 V
CN605	87-A61-109-010		CONN,7P V TID-A
CN701	87-099-197-010		CONN,9P 6216 V
CNA1	8A-NF6-646-010		CONN ASSY,9P TID-A(460)
CNA102	8B-DJW-630-010		CONN ASSY,7P TID-A(150)
FFC105	88-908-301-110		FF-CABLE,8P 1.25
FFC603	88-911-511-110		FF-CABLE,11P 1.25 510MM
FFC701	88-909-511-110		FF-CABLE,9P 1.25 510MM
FFE831	A8-6ZA-19C-170		6ZA-1 YFEENC
J102	87-A60-238-010		TERMINAL,SP 4P(MSC)
J601	87-A60-885-010		JACK,PIN 6P R/W MSC
J832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05
L141	87-A50-610-010		COIL,1UH K(MDEC)
L142	87-A50-610-010		COIL,1UH K(MDEC)
L801	87-A50-608-010		COIL,FM DET-N(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH(CECS)
L832	87-005-847-080		COIL,2.2UH(CECS)
L861	87-005-847-080		COIL,2.2UH(CECS)
L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ
L942	87-A50-019-010		COIL,OSC LW(COI)856KHZ
L951	8A-NF8-668-010		COIL,AM PACK 2(TOK)
R85	87-A00-436-050		RES,100-1/2W J RP
R86	87-A00-436-050		RES,100-1/2W J RP
R87	87-A00-436-050		RES,100-1/2W J RP
R88	87-A00-436-050		RES,100-1/2W J RP
R255	87-A00-262-080		RES,M/F 0.15-2W J
R256	87-A00-262-080		RES,M/F 0.15-2W J
R259	87-A00-262-080		RES,M/F 0.15-2W J
R260	87-A00-262-080		RES,M/F 0.15-2W J
R681	87-010-992-080		C-CAP,S 0.047-25 B
R682	87-010-992-080		C-CAP,S 0.047-25 B
R790	87-012-286-080		CAP,U 0.01-25
R991	87-012-195-080		C-CAP,U 100P-50CH
R993	87-012-195-080		C-CAP,U 100P-50CH
R995	87-012-195-080		C-CAP,U 100P-50CH
TC942	87-A91-774-080		TRIMMER,PLY 30P 6.8X5.4 CDYL
TH201	87-A91-042-080		C-THMS,100K 55001
TH202	87-A91-042-080		C-THMS,100K 55001
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
WH102	87-A90-460-010		HLDR,WIRE 2.5-7P
X861	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST
X991	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST

FRONT C.B

C141	87-012-278-080		C-CAP,U 2200P-50 B
C190	87-012-271-080		CAP,U 560P-50
C191	87-012-195-080		C-CAP,U 100P-50CH
C193	87-012-271-080		CAP,U 560P-50
C194	87-012-195-080		C-CAP,U 100P-50CH
C315	87-010-759-080		C-CAP,U 0.1-25F
C441	87-010-412-040		CAP,E 10-25 5L
C621	87-010-405-040		CAP,E 10-50
C622	87-010-759-080		C-CAP,U 0.1-25F
C623	87-012-188-080		C-CAP,U 47P-50 CH
C624	87-012-188-080		C-CAP,U 47P-50 CH
C625	87-012-188-080		C-CAP,U 47P-50 CH
C703	87-010-759-080		C-CAP,U 0.1-25F
C704	87-010-759-080		C-CAP,U 0.1-25F
C705	87-010-759-080		C-CAP,U 0.1-25F
C706	87-010-759-080		C-CAP,U 0.1-25F
C707	87-010-759-080		C-CAP,U 0.1-25F
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN103	87-099-201-010		CONN,8P 6216 H
CN141	87-A60-667-010		CONN,3P H 2MM JMT
CN401	87-099-212-010		CONN,5P 6216 V
CN502	87-099-212-010		CONN,5P 6216 V
CN603	87-A61-361-010		CONN,19P V GRY FMN-BTK
CN604	87-A61-385-010		CONN,21P H GRY FMN-SSTK
FFC103	88-908-381-110		FF-CABLE,8P 1.25
FFC401	88-905-281-110		FF-CABLE,5P 1.25 280MM
FFC502	88-905-361-110		FF-CABLE,5P 1.25 360MM
LED140	87-A40-266-080		LED,SLH-56VCT31 RED
LED672	87-A40-809-040		LED,LTL-307KK PGRN
LED673	87-A40-809-040		LED,LTL-307KK PGRN
LED674	87-A40-809-040		LED,LTL-307KK PGRN
LED675	87-A40-809-040		LED,LTL-307KK PGRN
LED676	87-A40-809-040		LED,LTL-307KK PGRN
LED677	87-A40-809-040		LED,LTL-307KK PGRN
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
SW162	87-A92-249-010		SW,RTRY EC12E24704-30MM
SW163	87-A92-113-010		SW,RTRY EC12E12504 30MM
X201	87-XMN-602-010		VIB,PIEZO PKM13EPY

LCD C.B

C151	87-A10-189-040		CAP,E 220-10
C154	87-A10-592-080		C-CAP,S 0.015-50 J B
C155	87-012-176-080		CAP,15P
C156	87-012-195-080		C-CAP,U 100P-50CH
C157	87-012-198-080		CAP,180P
C159	87-A10-353-080		C-CAP,U 0.22-10KB
C165	87-012-336-080		CAP,CHIP SS 330P SL
C166	87-010-075-040		CAP,E 10-16 5L
C170	87-010-759-080		C-CAP,U 0.1-25F
C171	87-016-114-080		C-CAP,U 0.01-25B
C172	87-010-759-080		C-CAP,U 0.1-25F
C175	87-010-759-080		C-CAP,U 0.1-25F
C176	87-012-274-080		CHIP CAP,U 1000P-50B
C177	87-010-194-080		CAP,CHIP 0.047
C180	87-010-759-080		C-CAP,U 0.1-25F
C192	87-012-172-080		C-CAP,U 10P-50 D CH
C193	87-018-209-080		CAP,CER 0.1-50V
C195	87-A10-207-080		CAP,TC U 0.01-50 KB
C602	87-010-759-080		C-CAP,U 0.1-25F
C603	87-012-188-080		C-CAP,U 47P-50 CH
C604	87-012-188-080		C-CAP,U 47P-50 CH
C605	87-012-188-080		C-CAP,U 47P-50 CH
C679	87-010-759-080		C-CAP,U 0.1-25F
C689	87-010-759-080		C-CAP,U 0.1-25F
CN605	87-A61-361-010		CONN,19P V GRY FMN-BTK
CN606	87-A61-090-010		CONN,21P V GRY FMN-BTK
FB110	87-008-372-080		FILTER,EMI BLO1RN1
FC111	87-033-213-080		FUSE CLAMP,PFC5000
FC112	87-033-213-080		FUSE CLAMP,PFC5000
FFC605	8B-DJW-632-010		FF-CABLE,19P 1.0 220MM
FFC606	8B-DJW-631-010		FF-CABLE,21P 1.0 180MM
L151	87-A50-657-010		COIL,CLK 9.43MHZ(TOKO)7KLY
LCD101	8B-DJW-616-110		LCD,AIW4279-30P1N
LED671	87-A92-077-010		LED,SMLU1BE16C-SLF73 BLU/UMB
LED681	87-A92-077-010		LED,SMLU1BE16C-SLF73 BLU/UMB

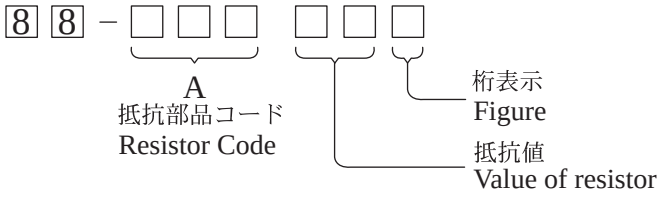
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED691	87-A92-078-010		LED,SELU1D10CXM-SLF38 GR
LED692	87-A92-078-010		LED,SELU1D10CXM-SLF38 GR
LED693	87-A92-078-010		LED,SELU1D10CXM-SLF38 GR
3CH AMP C.B			
C101	87-012-278-080		C-CAP,U 2200P-50 B
C102	87-012-278-080		C-CAP,U 2200P-50 B
C103	87-A12-087-080		CAP,E 1-50 SMG
C104	87-A12-087-080		CAP,E 1-50 SMG
C107	87-A12-095-080		CAP,E 100-50 SMG
C108	87-A12-095-080		CAP,E 100-50 SMG
C111	87-A12-078-080		CAP,E 47-35 SMG
C112	87-A12-078-080		CAP,E 47-35 SMG
C113	87-012-195-080		C-CAP,U 100P-50CH
C114	87-012-195-080		C-CAP,U 100P-50CH
C117	87-A10-596-080		C-CAP,S 100P-100 J CH
C118	87-A10-596-080		C-CAP,S 100P-100 J CH
C119	87-012-368-080		C-CAP,S 0.1-50 F
C120	87-012-368-080		C-CAP,S 0.1-50 F
C121	87-012-286-080		CAP,U 0.01-25
C122	87-012-286-080		CAP,U 0.01-25
C125	87-010-831-080		C-CAP,U 0.1-16F
C201	87-012-278-080		C-CAP,U 2200P-50 B
C202	87-A12-087-080		CAP,E 1-50 SMG
C204	87-A12-095-080		CAP,E 100-50 SMG
C206	87-A12-078-080		CAP,E 47-35 SMG
C207	87-012-195-080		C-CAP,U 100P-50CH
C209	87-A10-596-080		C-CAP,S 100P-100 J CH
C210	87-012-368-080		C-CAP,S 0.1-50 F
C211	87-012-286-080		CAP,U 0.01-25
C300	87-012-278-080		C-CAP,U 2200P-50 B
C301	87-012-282-080		CAP,U 4700P-50
CN102	87-A61-109-010		CONN,7P V TID-A
CN103	87-A60-059-010		CONN,08P V 9604S-08C
R157	87-A00-258-080		RES,M/F 0.22-1W J
R158	87-A00-258-080		RES,M/F 0.22-1W J
R161	87-A00-258-080		RES,M/F 0.22-1W J
R162	87-A00-258-080		RES,M/F 0.22-1W J
R230	87-A00-258-080		RES,M/F 0.22-1W J
R231	87-A00-258-080		RES,M/F 0.22-1W J
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
TH201	87-A91-042-080		C-THMS,100K 55001
W201	8B-DJW-629-010		F-CABLE,6P 2.5 220MM
KEY C.B			
CNA3	88-803-033-010		CONN ASSY,3P 300MM
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S347	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M
S351	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
PT C.B			
C1	87-018-209-080		CAP,CER 0.1-50V
CN1	87-A61-110-010		CONN,9P V TID-A
⚠ FB1	87-A90-457-010		F-BEAD,15-25-15 E2515 JRT
⚠ PT1	8B-DJW-624-010		PT,BDJ-29EZ
⚠ PT2	8B-MA6-675-010		PT,SUB BMA E (VRK)
⚠ RY2	87-A91-418-010		RELAY,AC12V G5PA-1-M
⚠ T1	87-A60-317-010		TERMINAL,1P MSC
⚠ T2	87-A60-317-010		TERMINAL,1P MSC
MIC C.B			
C502	87-010-186-080		CAP,CHIP 4700P
C503	87-010-112-040		CAP,E 100-16
C504	87-010-405-040		CAP,E 10-50
C506	87-010-320-080		CHIP CAP,68P
C513	87-010-196-080		CHIP CAPACITOR,0.1-25
C514	87-010-196-080		CHIP CAPACITOR,0.1-25
C515	87-010-178-080		CHIP CAP,1000P
C516	87-012-140-080		CAP,470P
CN552	87-A60-130-010		CONN,5P V FE
FB501	87-008-372-080		FILTER,EMI BLO1RN1
J501	87-A61-243-010		JACK,6.3 BLK MONO W/SW V MSC
MOT C.B			
M401	87-045-305-010		MOT,RF-500TB
WIN C.B			
CN402	87-A60-082-010		CONN,05P H 9604S-05F
CNA1	84-ZG1-647-010		CONN ASSY,2P
S401	87-A92-128-010		SW,LVR MXS01070MLBO
JACK C.B			
C401	87-012-368-080		C-CAP,S 0.1-50 F
C402	87-012-368-080		C-CAP,S 0.1-50 F
C403	87-012-368-080		C-CAP,S 0.1-50 F
C404	87-012-368-080		C-CAP,S 0.1-50 F
C405	87-A12-310-080		C-CAP,U 0.01-50 KB
C408	87-A12-310-080		C-CAP,U 0.01-50 KB
C411	87-012-368-080		C-CAP,S 0.1-50 F
C412	87-012-368-080		C-CAP,S 0.1-50 F
C414	87-A12-310-080		C-CAP,U 0.01-50 KB
C421	87-A12-310-080		C-CAP,U 0.01-50 KB
C422	87-A12-310-080		C-CAP,U 0.01-50 KB
J201	87-A61-540-010		JACK,PIN 4P ORBW MSP-244V -41
L401	87-A50-610-010		COIL,1UH K(MDEC)
L402	87-A50-610-010		COIL,1UH K(MDEC)
L411	87-A50-610-010		COIL,1UH K(MDEC)
DET C.B			
DSP C.B			
C552	87-A12-061-080		CAP,E 47-10 SMG
C556	87-016-460-080		C-CAP,S 0.22-16 B
C557	87-016-460-080		C-CAP,S 0.22-16 B
C558	87-010-759-080		C-CAP,U 0.1-25F
C559	87-A10-201-080		C-CAP,S0.33-16 KB
C560	87-010-971-080		C-CAP,S 4700P-50 B J
C561	87-010-177-080		C-CAP,S 820P-50 SL
C562	87-016-669-080		C-CAP,S 0.1-25 K B
C563	87-016-669-080		C-CAP,S 0.1-25 K B
C564	87-010-971-080		C-CAP,S 4700P-50 B J
C565	87-010-177-080		C-CAP,S 820P-50 SL
C566	87-016-460-080		C-CAP,S 0.22-16 B
C567	87-010-374-080		CAP,ELECT 47-10V

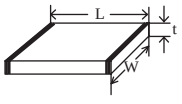
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C568	87-016-669-080		C-CAP,S 0.1-25 K B
C569	87-A12-087-080		CAP,E 1-50 SMG
C571	87-A12-087-080		CAP,E 1-50 SMG
C572	87-010-759-080		C-CAP,U 0.1-25F
C573	87-A12-086-080		CAP,E 0.47-50 SMG
CN552	87-099-670-010		CONN,9P TUC-P9X-B1
FAN C.B			
C180	87-A12-087-080		CAP,E 1-50 SMG
C181	87-A12-066-080		CAP,E 47-16 SMG
C182	87-A12-071-080		CAP,E 47-25 SMG
CN181	87-A60-619-010		CONN,2P V 2MM JMT
CN184	87-099-553-010		CONN,4P TUC-P4X-B1
HP C.B			
C161	87-012-271-080		C-CAP,U 560P-50 KB
C162	87-012-271-080		C-CAP,U 560P-50 KB
CNA4	8B-DJW-628-010		CONN ASSY,6P TID-A(350)
J160	87-A61-481-010		JACK,DIA6.3 BLK ST W/SW MSC16B
WH160	87-A90-460-010		HLDR,WIRE 2.5-7P
EURO C.B			
CN1	87-009-345-010		CONN,2P PH H
J101	87-A60-417-010		CONN,21P V BLK 0350535000

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



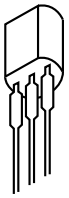
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

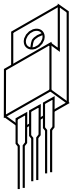
E C B

2SA1979O/Y
2SA1981Y
2SC5342Y
CSD655E



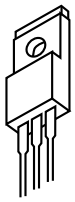
E C B

2SA1980G
CC5551
CSC4115BC
KTC3198GR



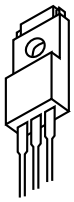
B C E

2SB1686
2SD2642
CSB1370EF



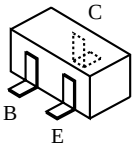
B C E

2SB1342
2SD1933

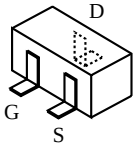


G D S

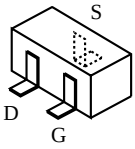
2SK2937



2SA1235F
2SC2714O
2SC3052F
2SD1306E
CSD1306E
KRA102S
KRA104S
KRA107S
KRC107S
RT1N 144C
RT1P 141C
SBT5401F
SBT5551F

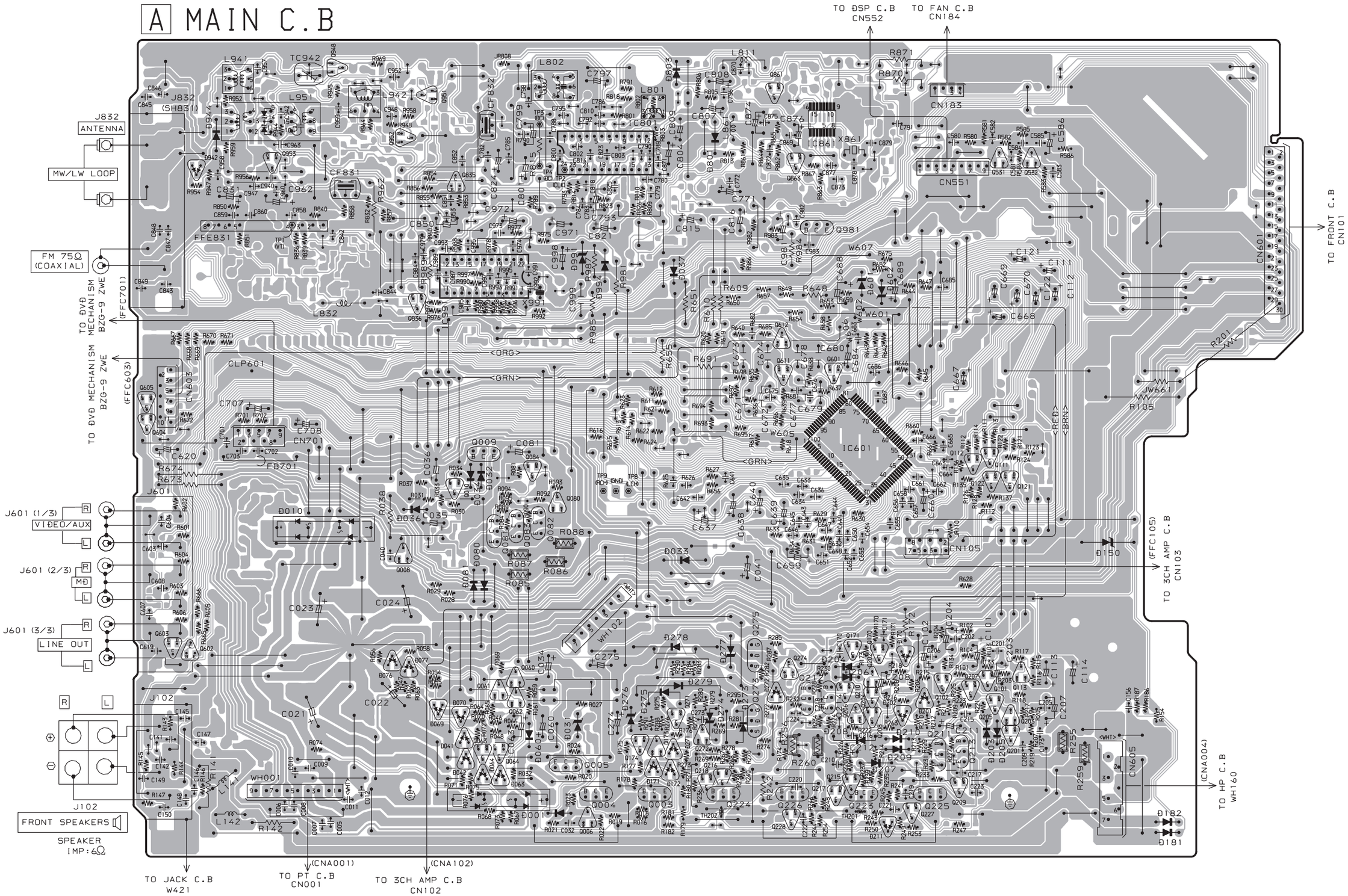


2SK2158

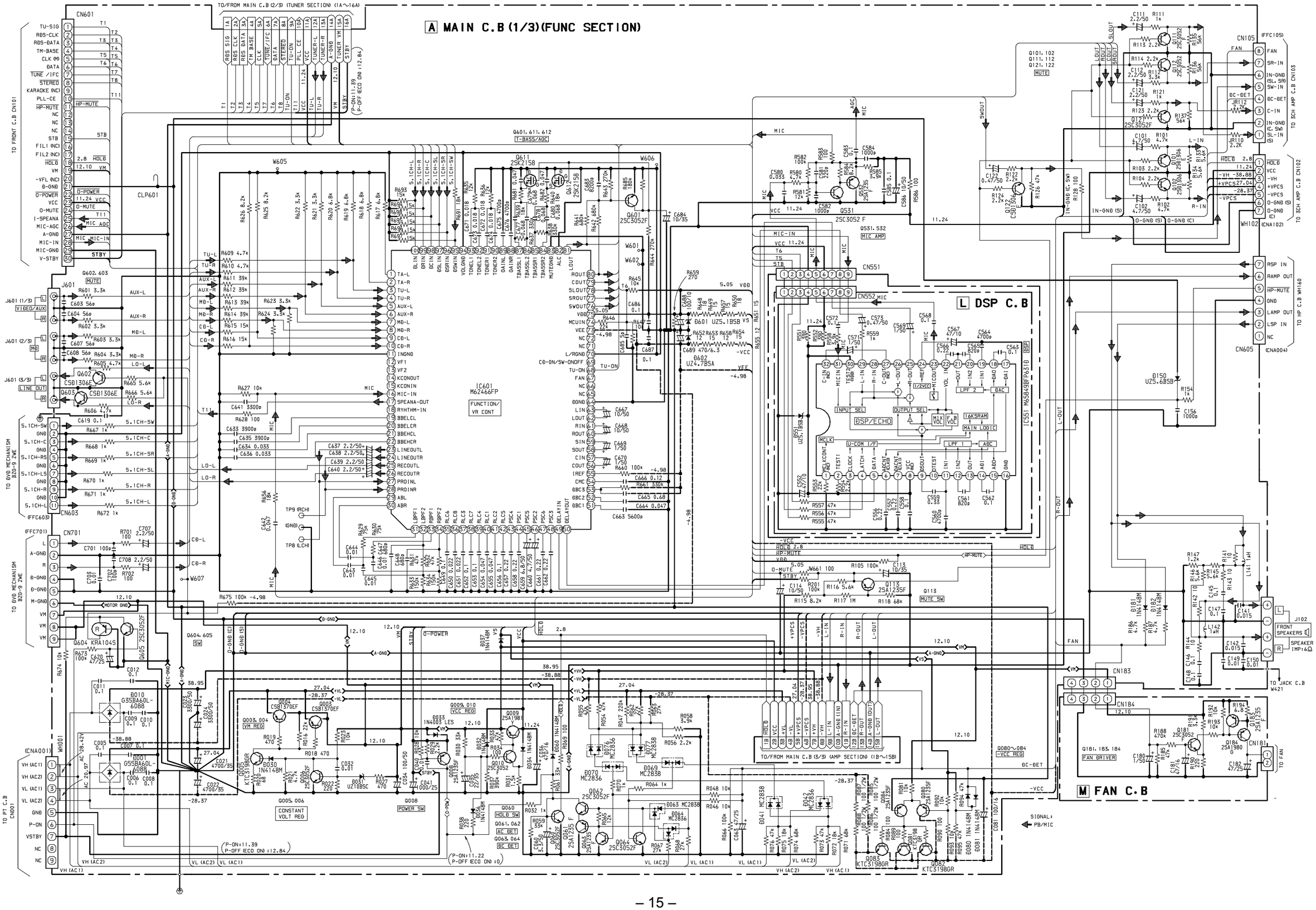


2SK360E

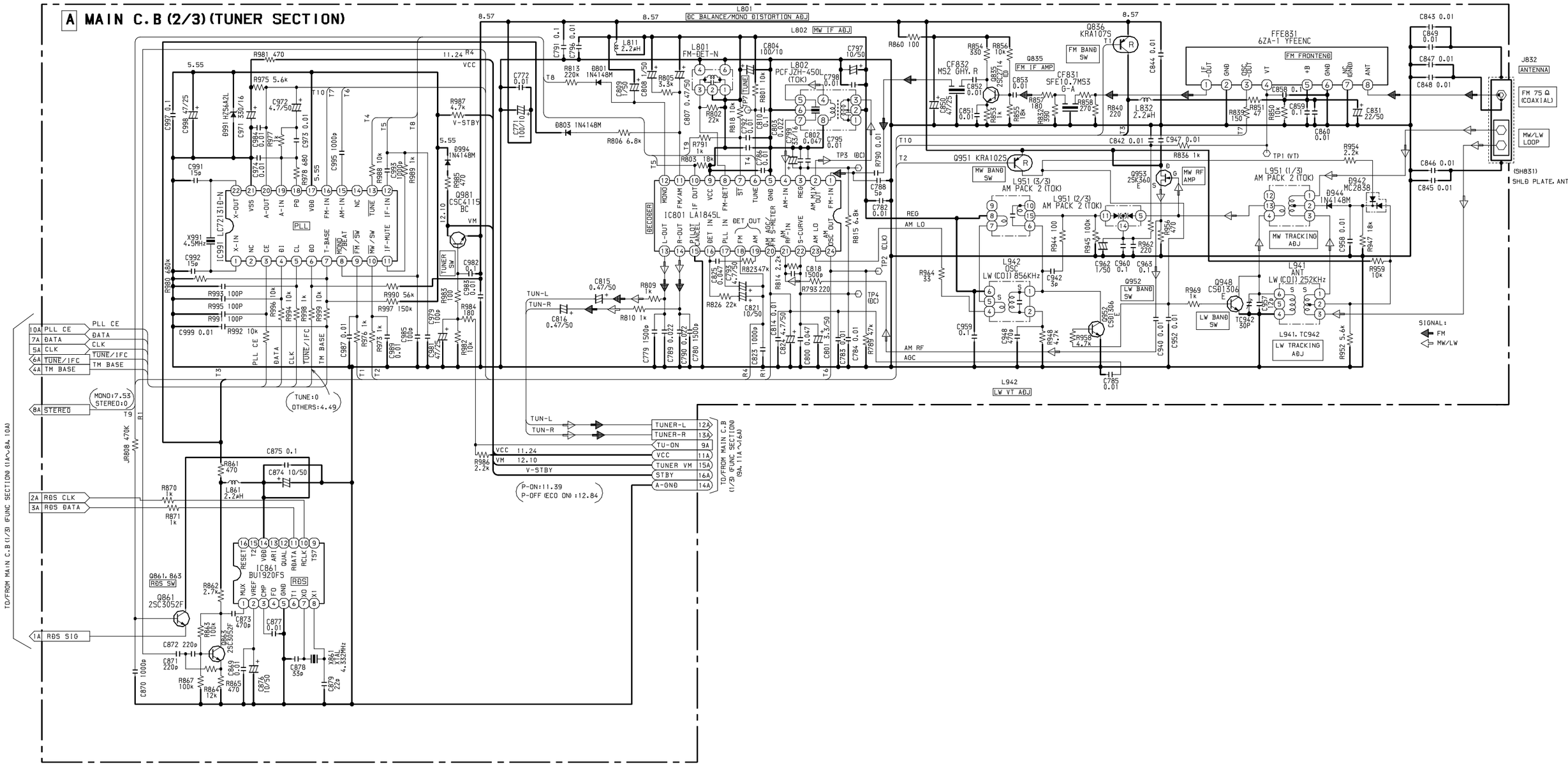
A MAIN C.B


TO ĐSP C.B
CN552
TO FAN C.B
CN184
J832
ANTENNA
MW/LW LOOP
FM 75Ω
(COAXIAL)
TO ĐVĐ MECHANISM
BZG-9 ZWE
(FFC701)
TO ĐVĐ MECHANISM
BZG-9 ZWE
(FFC603)
J601 (1/3)
VIĐEO/AUX
J601 (2/3)
MĐ
J601 (3/3)
LINE OUT
J102
FRONT SPEAKERS
SPEAKER
IMP: 6Ω
TO JACK C.B
W421
(CNA001)
TO PT C.B
CN001
(CNA102)
TO 3CH AMP C.B
CN102
TO FRONT C.B
CN101
(FFC105)
TO 3CH AMP C.B
CN103
(CNA004)
TO HP C.B
WH160
IC601
IC680
IC861
X861
CN183
CN551
CN601
CN603
CN701
CN105
CN605
<ORG>
<GRN>
<RED>
<BRN>
<WHT>

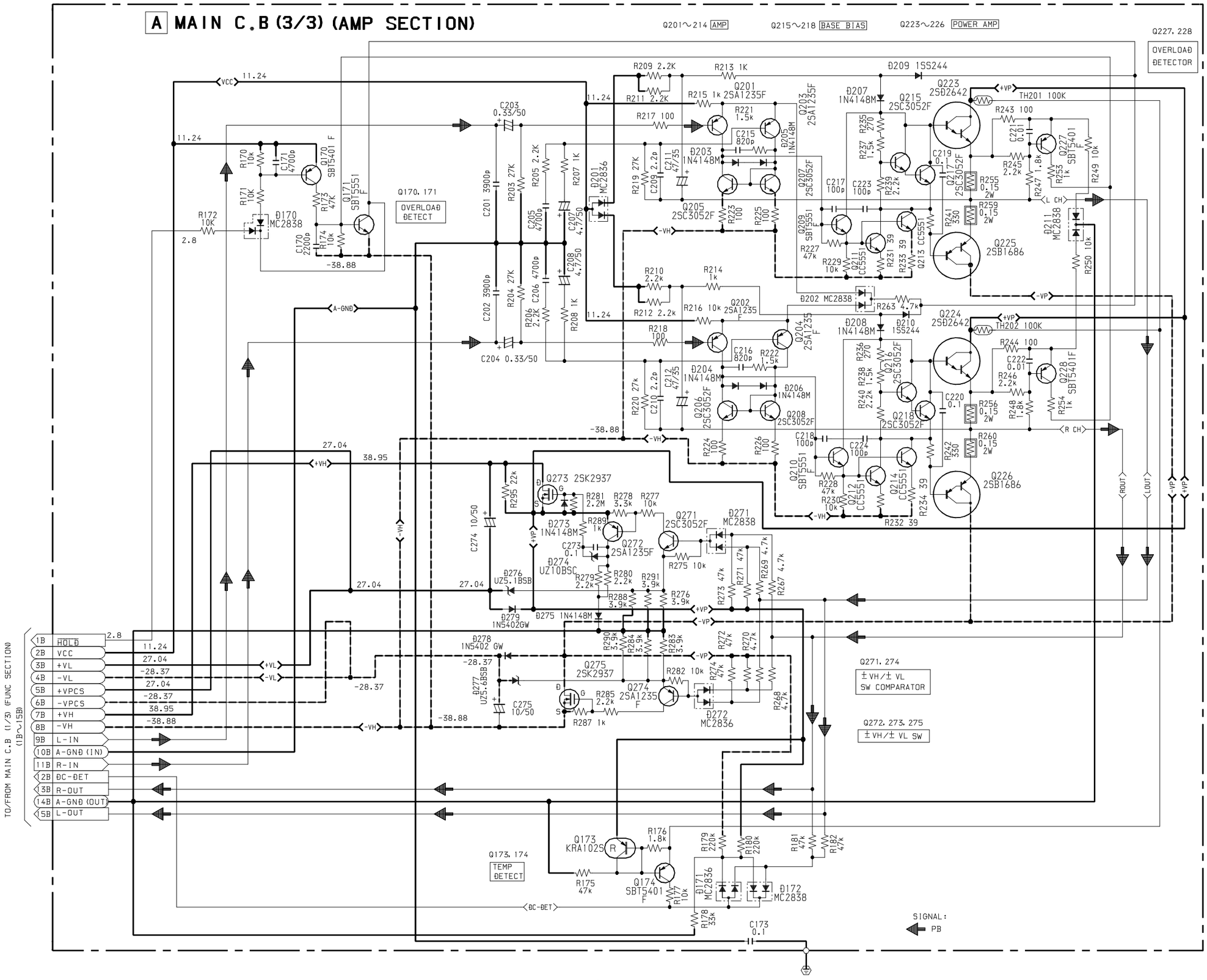
SCHEMATIC DIAGRAM – 1 (MAIN : 1 / 3 <FUNC SECTION> / DSP / FAN)



SCHEMATIC DIAGRAM – 2 (MAIN : 2 / 3 <TUNER SECTION>)

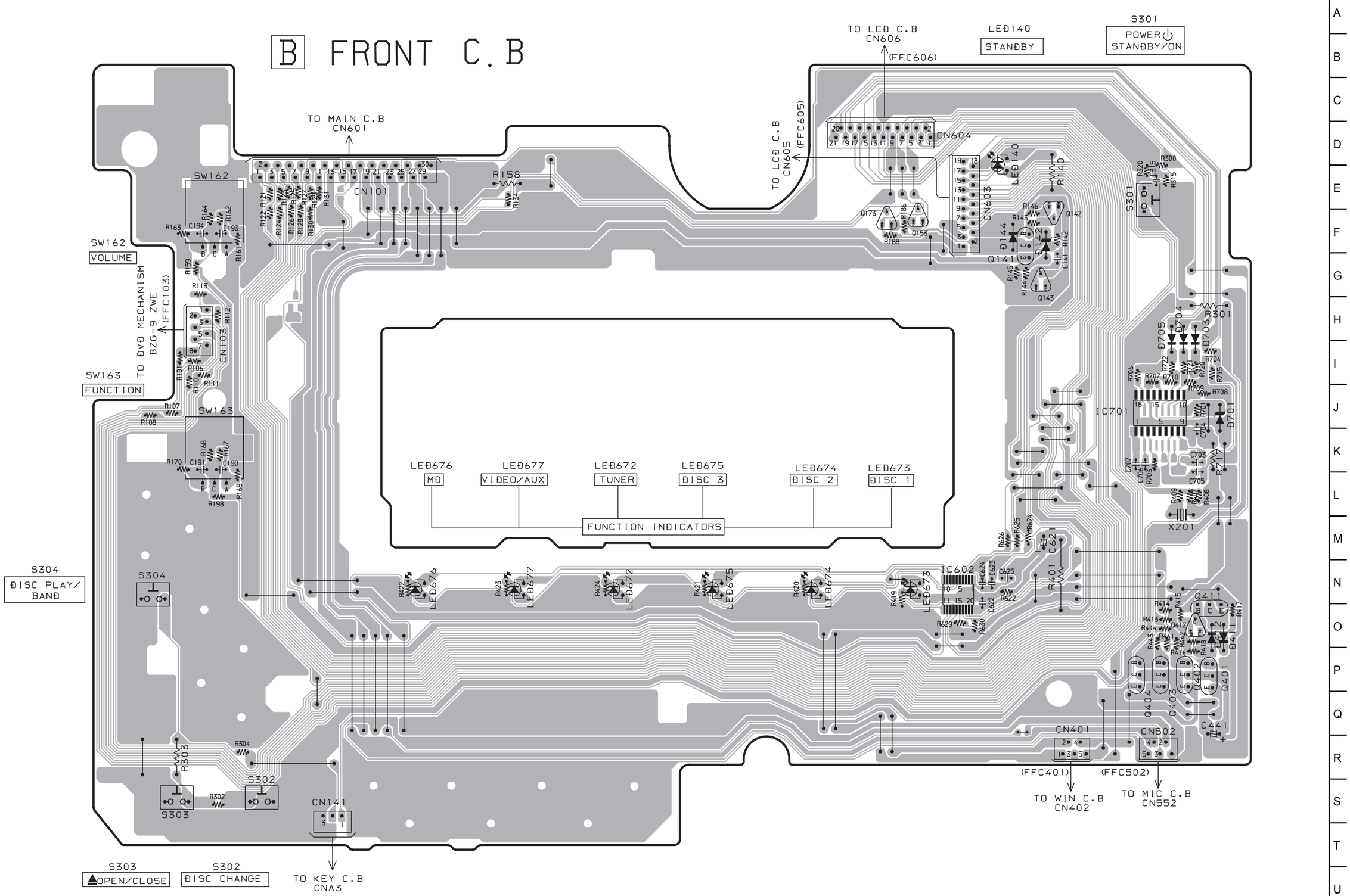


SCHEMATIC DIAGRAM – 3 (MAIN : 3 / 3 <AMP SECTION>)

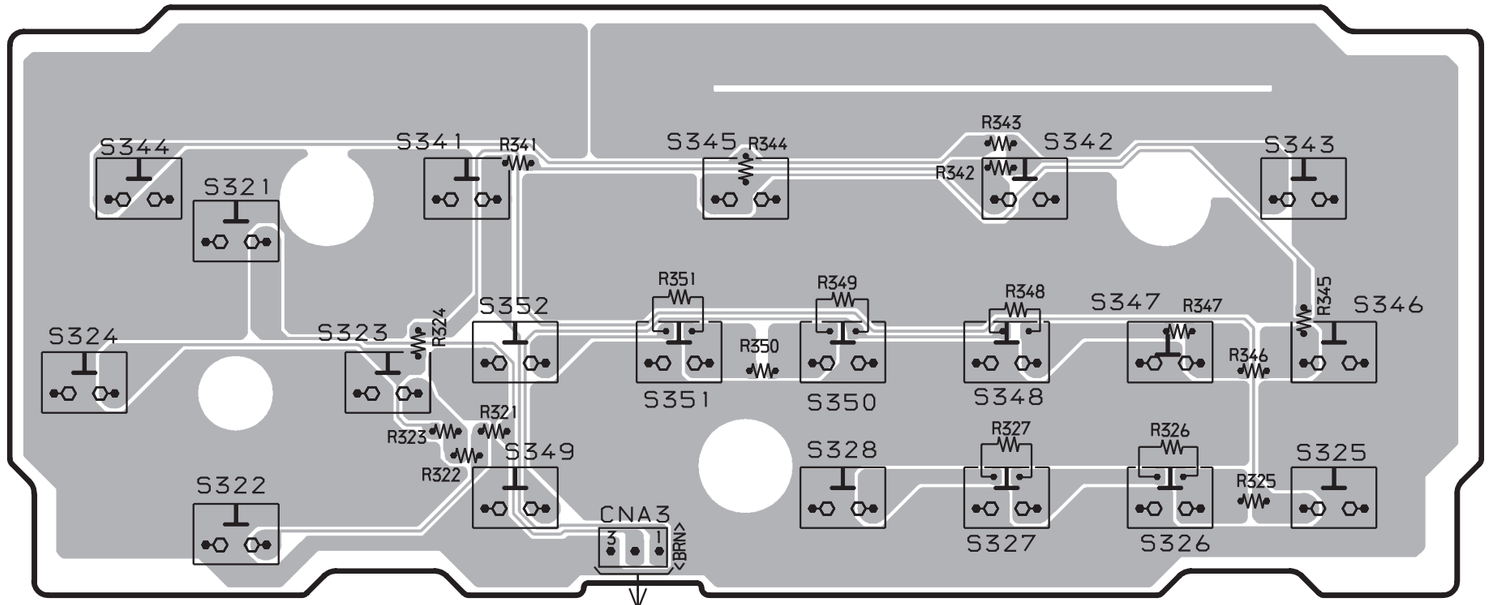


32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U



E KEY C.B



TO FRONT C.B
CN141

S344 ▶▶\▶▶| UP

S341 ▶ PRESET

S345 |◀◀\|◀◀ DOWN

S342 ■ CLEAR

S343 ❚❚ SET

S321

S324 CURSOR S323

S322

S352 AG

S351 PTY

S350 RT

S348 RETURN

S347 PBC

S346 MODE

S349 ENTER

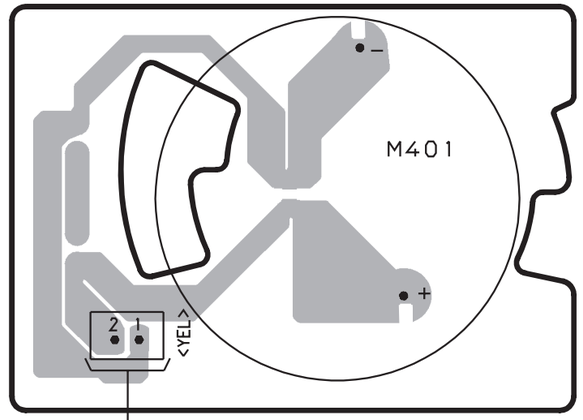
S328 SETUP

S327 TITLE

S326 MENU

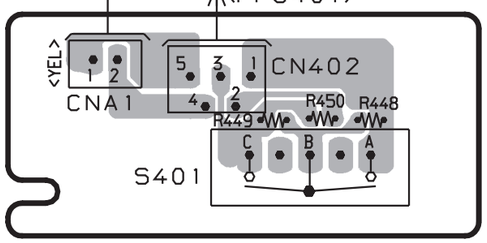
S325 SURROUND

H MOT C.B



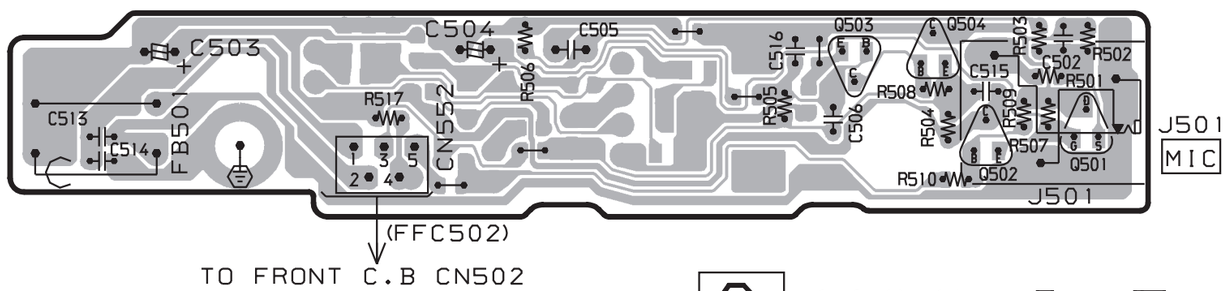
M401
(SLIDE WINDOW MOTOR)

TO FRONT C.B
CN401
(FFC401)



S401
WINDOW UP/DOWN

I WIN C.B



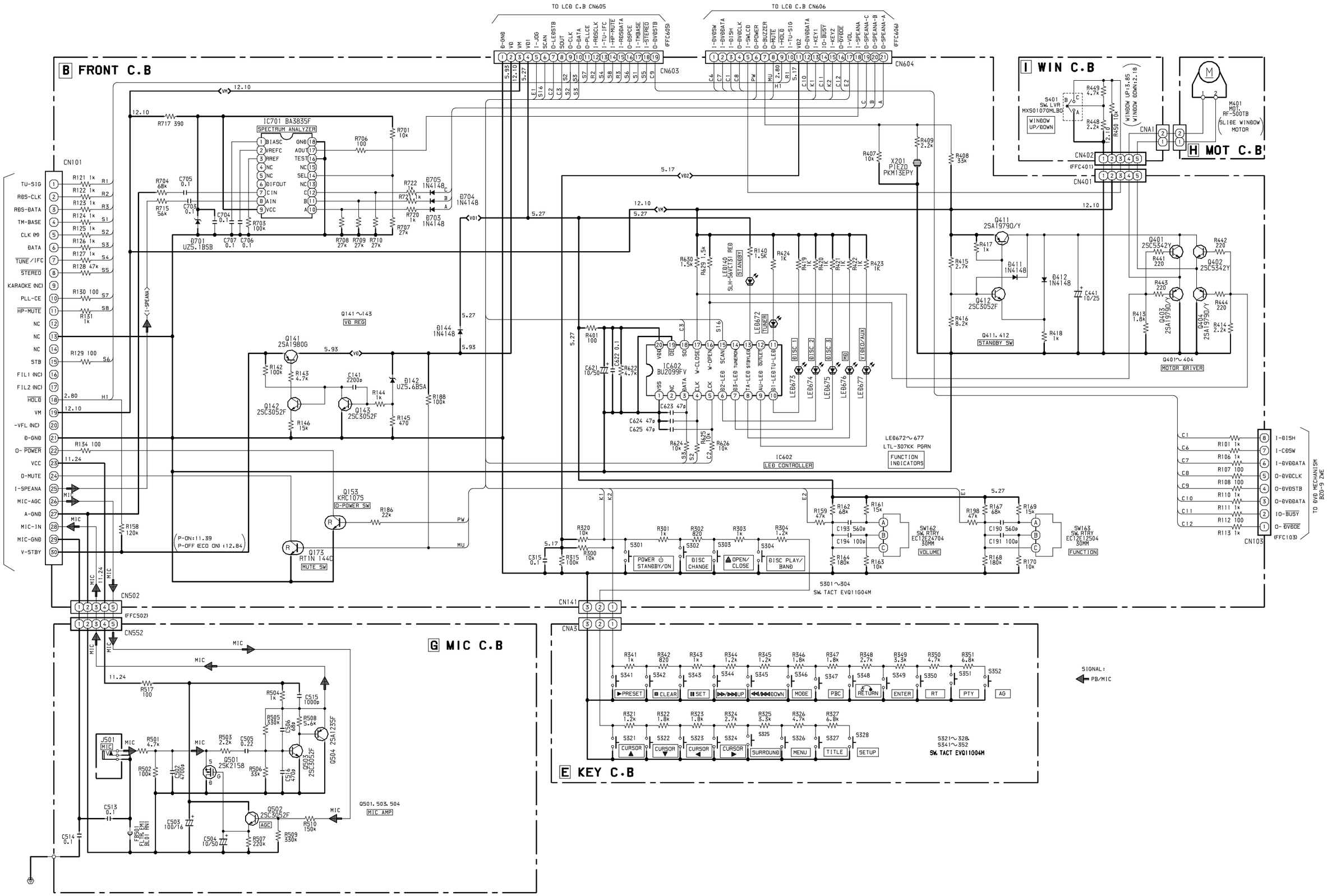
J501
MIC

(FFC502)

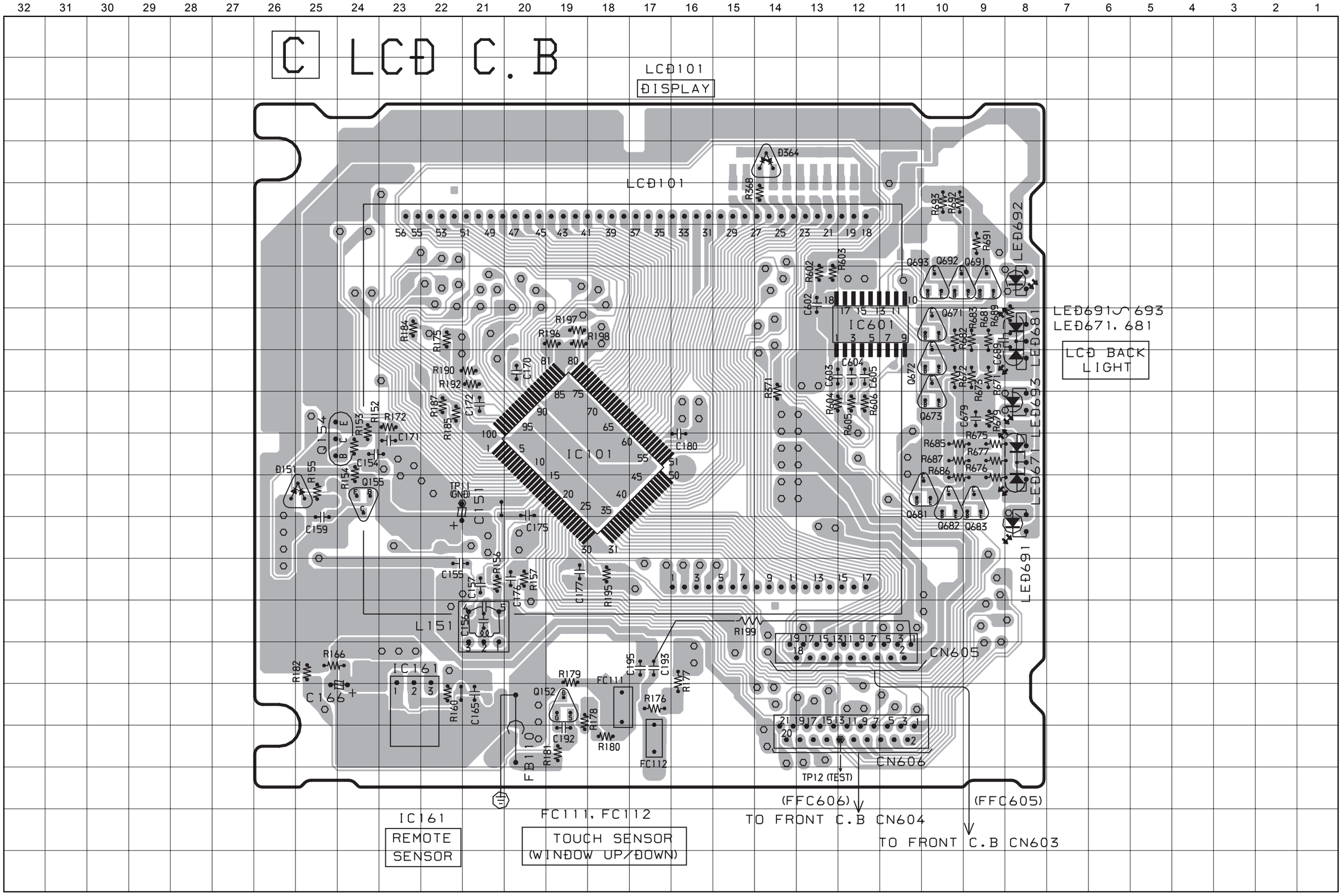
TO FRONT C.B CN502

G MIC C.B

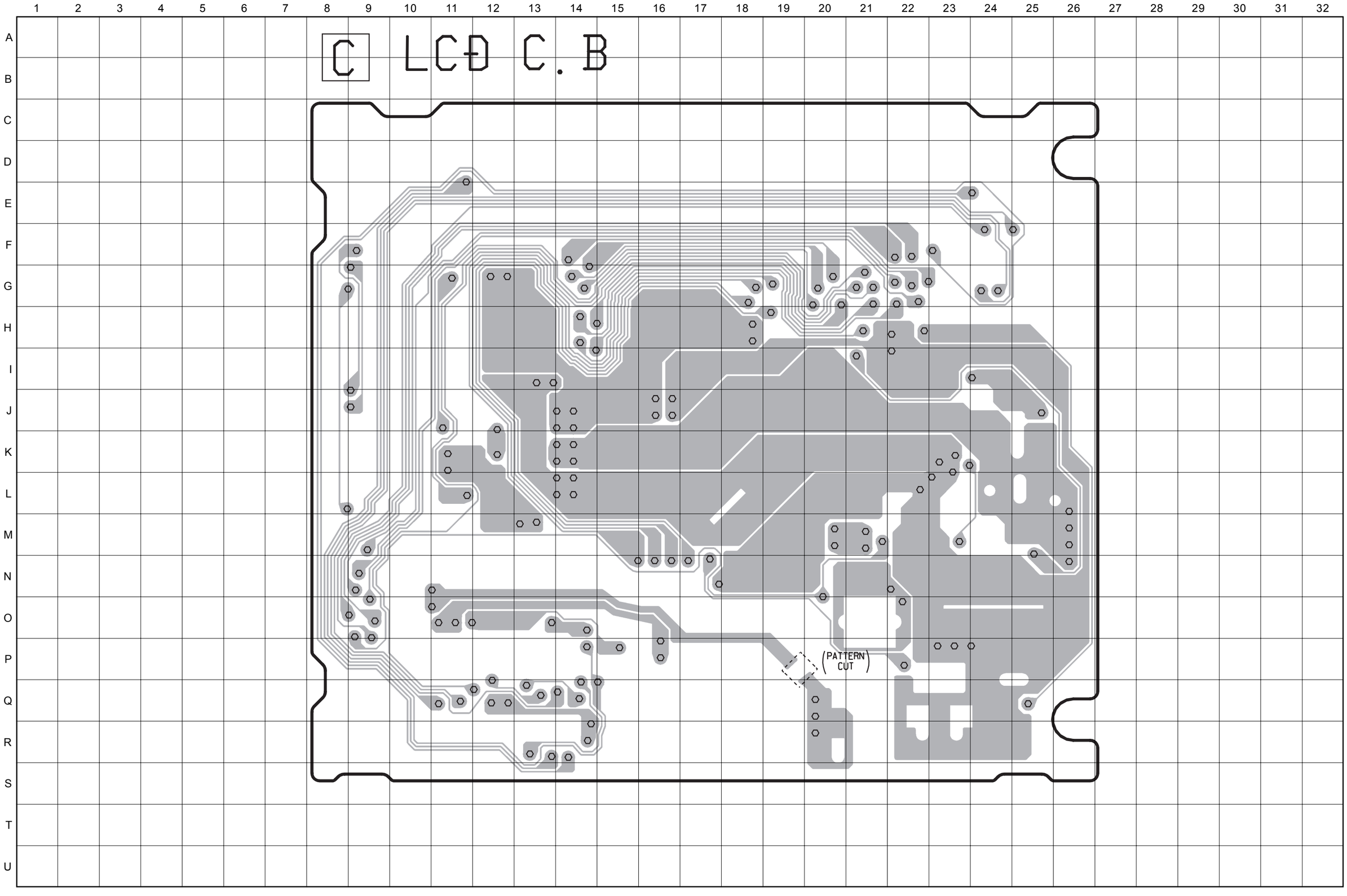
SCHEMATIC DIAGRAM – 4 (FRONT / KEY / MIC / MOT / WIN)



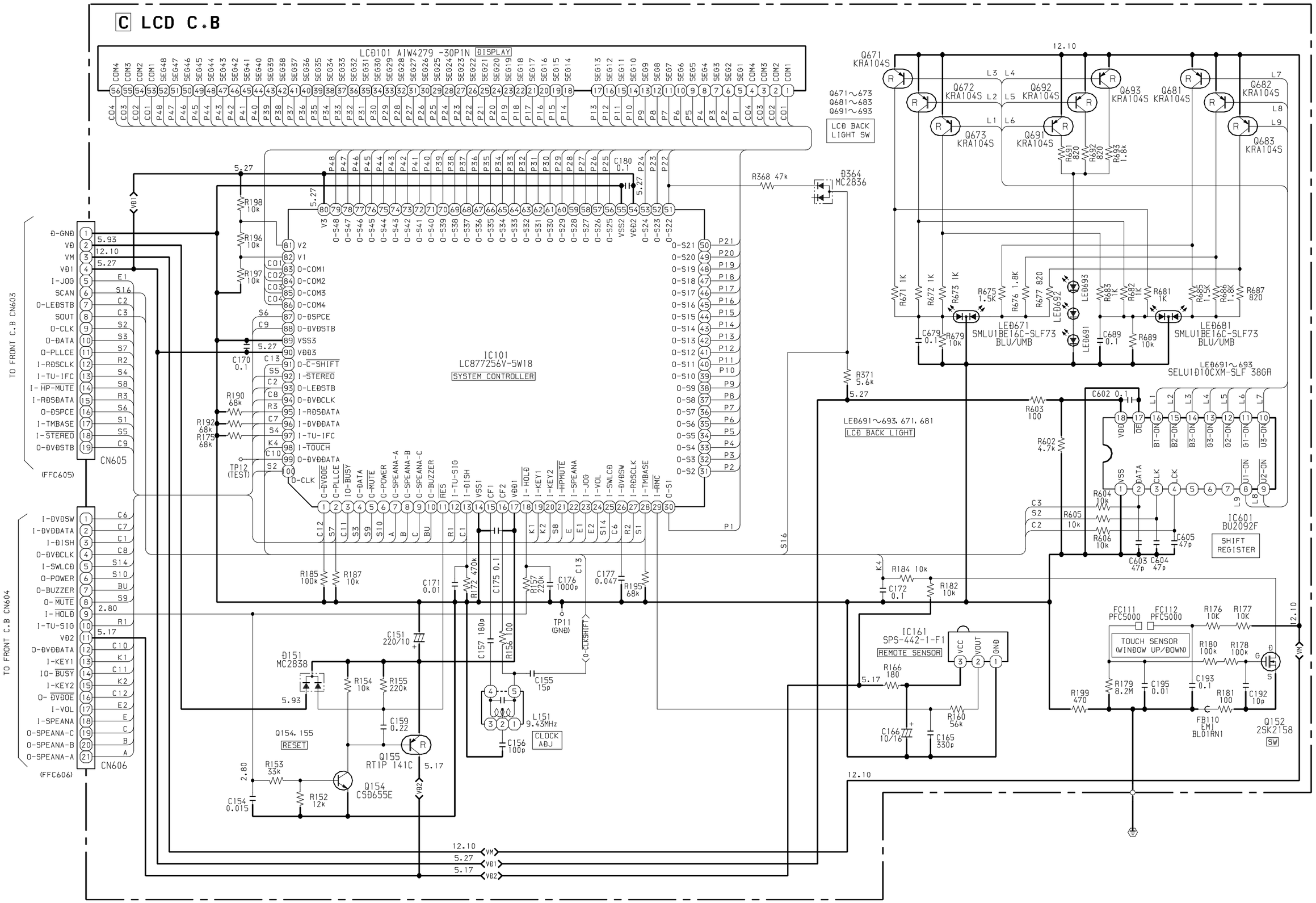
C LCD C.B

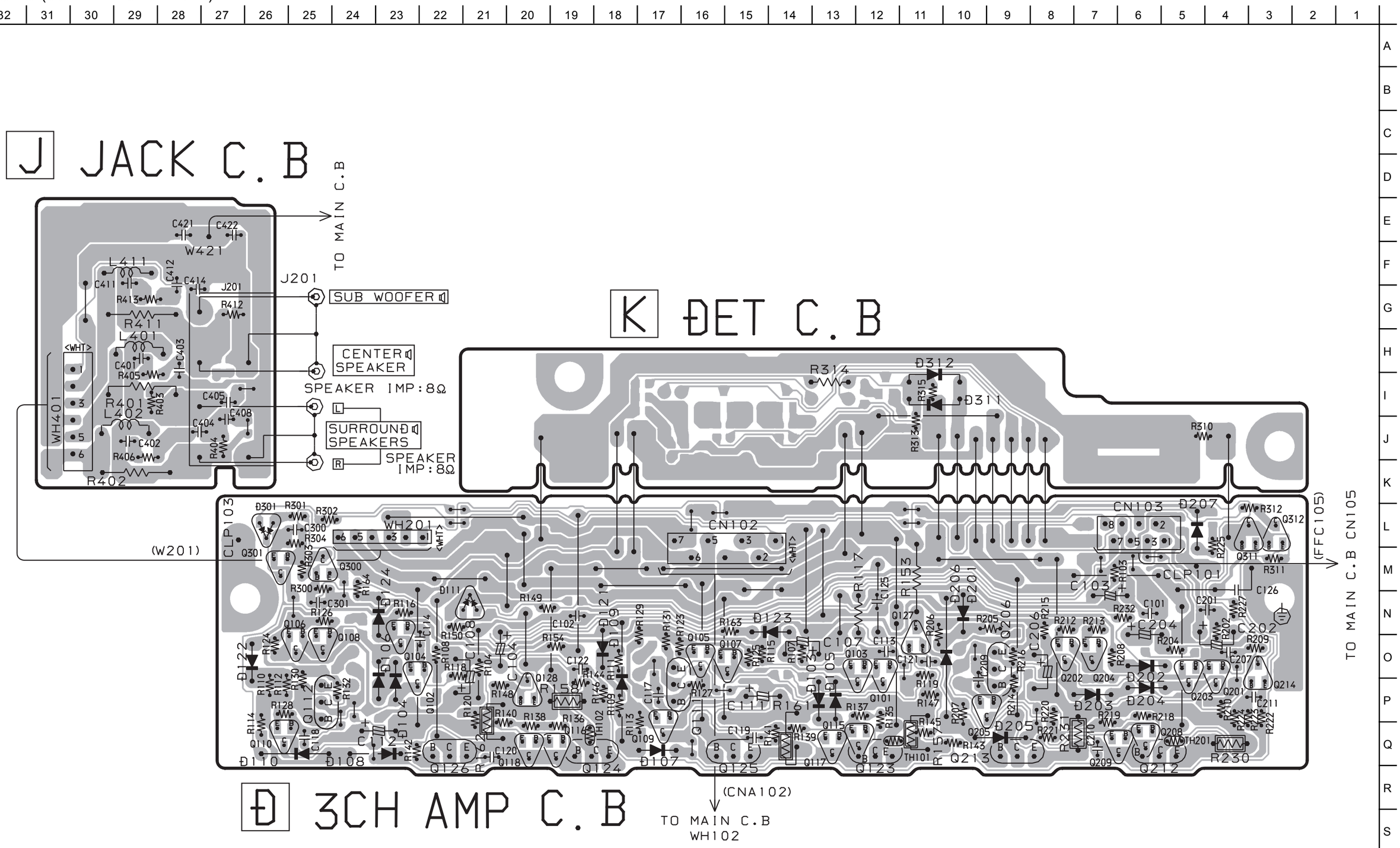

LCD101
DISPLAY
LCD101
D364
R368
IC101
IC601
LED692
LED693
LED681
LED671
LED691
LED691~693
LED671, 681
LCD BACK LIGHT
Q693
Q692
Q691
Q671
Q672
Q673
Q681
Q682
Q683
Q154
Q155
Q152
D151
TP1 (GND)
L151
IC161
REMOTE SENSOR
FC111, FC112
TOUCH SENSOR (WINDOW UP/DOWN)
CN605
CN606
TP12 (TEST)
(FFC606)
TO FRONT C.B CN604
(FFC605)
TO FRONT C.B CN603

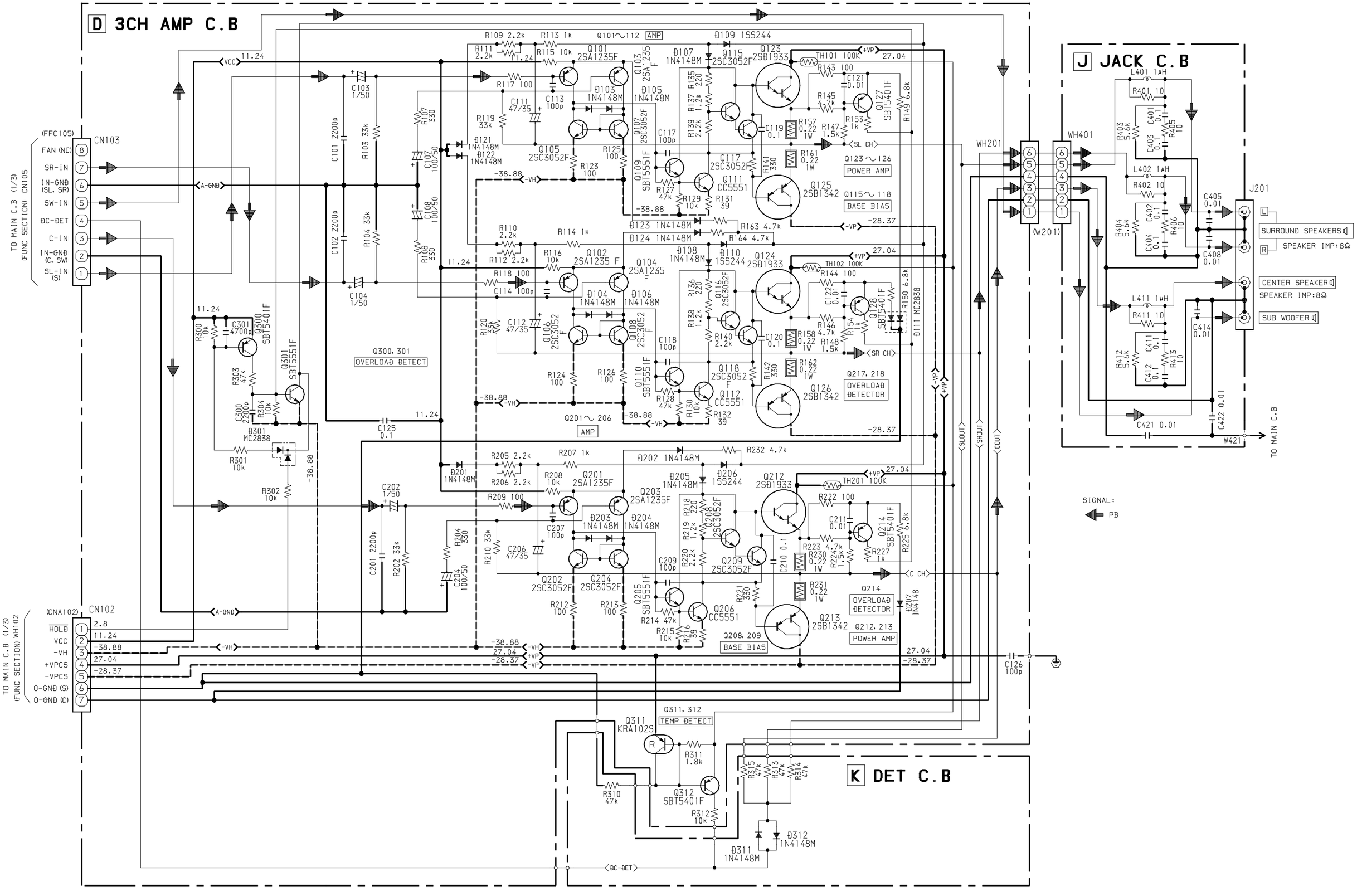
WIRING – 4 (LCD) <2 / 2>

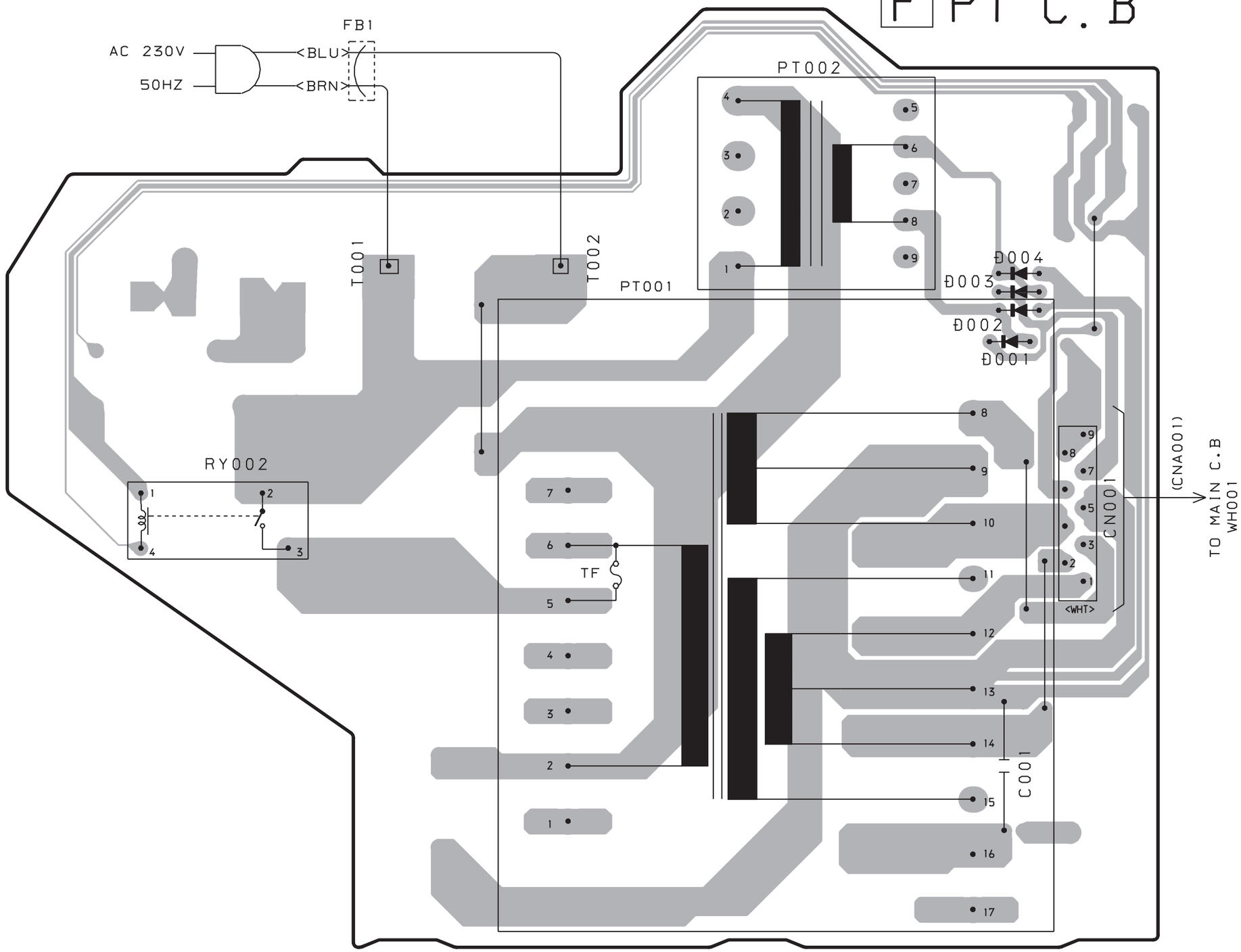


C LCD C.B

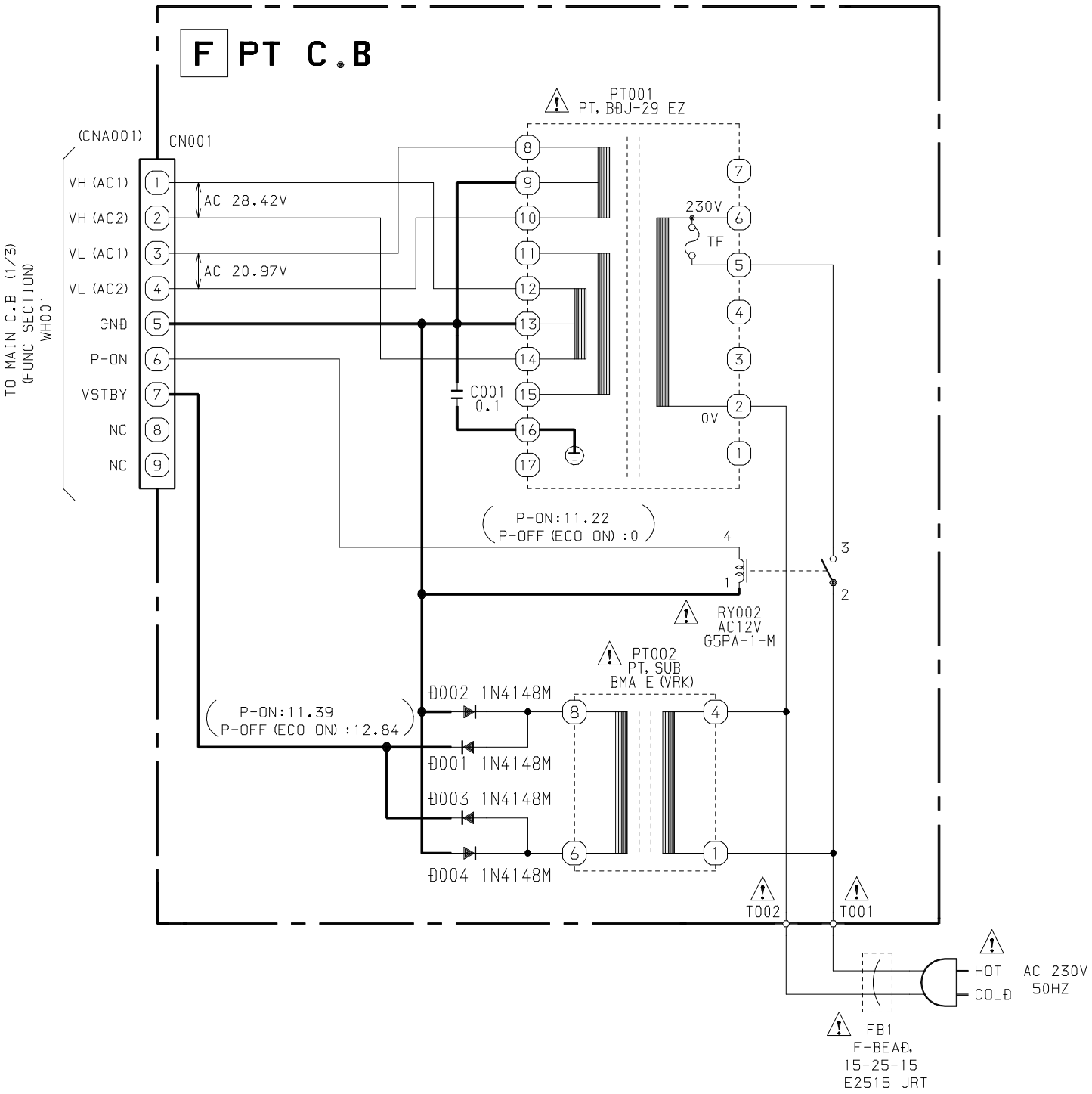

LCD101 AIW4279 -30P1N DISPLAY
IC101
LC877256V-5W18
SYSTEM CONTROLLER
CN605
(FFC605)
CN606
(FFC606)
TO FRONT C.B CN603
TO FRONT C.B CN604
Q671~673
Q681~683
Q691~693
LCD BACK LIGHT SW
Q671 KRA104S
Q672 KRA104S
Q673 KRA104S
Q691 KRA104S
Q692 KRA104S
Q693 KRA104S
Q681 KRA104S
Q682 KRA104S
Q683 KRA104S
LED671 SMLU1BE16C-SLF73 BLU/UMB
LED681 SMLU1BE16C-SLF73 BLU/UMB
LED691~693 SELU1D10CXM-SLF 38GR
LED691~693, 671, 681
LCD BACK LIGHT
D364 MC2836
D151 MC2838
IC161 SPS-442-1-F1
REMOTE SENSOR
IC601 BU2092F
SHIFT REGISTER
TOUCH SENSOR (WINDOW UP/DOWN)
FC111 PFC5000
FC112 PFC5000
Q154, 155
RESET
Q155 RTIP 141C
Q154 CSD655E
L151 9.43MHz
CLOCK ADJ
FB110 EMI BL01RN1
Q152 2SK2158
SW
TP12 (TEST)
TP11 (GND)
O-CLKSHIFT
VM
VD1
VD2
12.10
5.27
5.17
2.80
5.93


J JACK C.B
TO MAIN C.B
J201
SUB WOOFER
CENTER SPEAKER
SPEAKER IMP:8Ω
SURROUND SPEAKERS
SPEAKER IMP:8Ω
WH401
<WHT>
(W201)
K ĐET C.B
TO MAIN C.B CN105
(FFC105)
Đ 3CH AMP C.B
(CNA102)
TO MAIN C.B
WH102
CLP103
CLP101
WH201
CN102
CN103

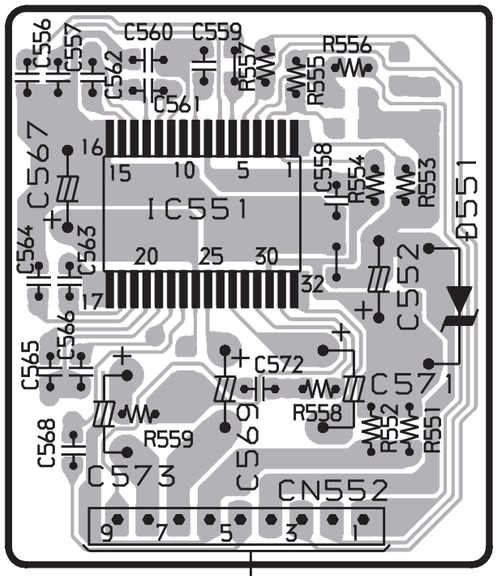

D 3CH AMP C.B
J JACK C.B
K DET C.B
CN103
(FFC105)
FAN (NC)
SR-IN
IN-GND (SL, SR)
SW-IN
DC-DET
C-IN
IN-GND (C, SW)
SL-IN (S)
TO MAIN C.B (1/3) (FUNC SECTION) CN105
CN102
(CNA102)
HOLD
VCC
-VH
+VPCS
-VPCS
O-GND (S)
O-GND (C)
TO MAIN C.B (1/3) (FUNC SECTION) WH102
WH201
WH401
(W201)
J201
SURROUND SPEAKERS
SPEAKER IMP:8Ω
CENTER SPEAKER
SPEAKER IMP:8Ω
SUB WOOFER
TO MAIN C.B
SIGNAL:
PB
Q101~112 AMP
Q103 2SA1235F
Q104 2SA1235 F
Q105 2SC3052F
Q106 2SC3052 F
Q107 2SC3052F
Q108 2SC3052 F
Q109 SBT5551F
Q110 SBT5551F
Q111 CC5551
Q112 CC5551
Q123~126 POWER AMP
Q115~118 BASE BIAS
Q125 2SB1342
Q126 2SB1342
Q127 SBT5401F
Q128 SBT5401F
Q300. 301 OVERLOAD DETECT
Q217. 218 OVERLOAD DETECTOR
Q201~206 AMP
Q202 2SC3052F
Q203 2SA1235F
Q204 2SC3052F
Q205 SBT5551F
Q206 CC5551
Q208. 209 BASE BIAS
Q212 2SB1933
Q213 2SB1342
Q212. 213 POWER AMP
Q214 OVERLOAD DETECTOR
Q311. 312 TEMP DETECT
Q311 KRA102S
Q312 SBT5401F
TH101 100K
TH102 100K
TH201 100K
+VP 27.04
-VP -28.37
-VH -38.88
A-GND
VCC 11.24
SL CH
SR CH
C CH
SLOUT
SROU
COUT


F PT C.B
FB1
AC 230V
50HZ
BLU
BRN
T001
T002
PT001
PT002
Đ004
Đ003
Đ002
Đ001
RY002
TF
C001
CN001
(CNA001)
TO MAIN C.B
WH001
<WHT>

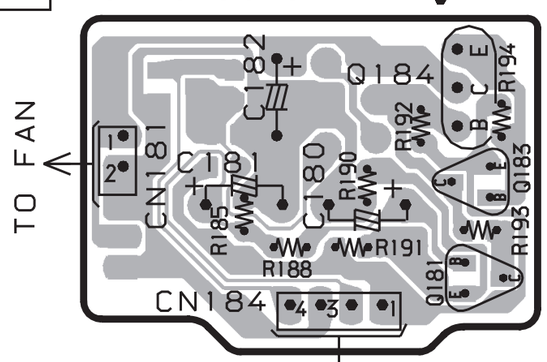
SCHEMATIC DIAGRAM – 7 (PT)



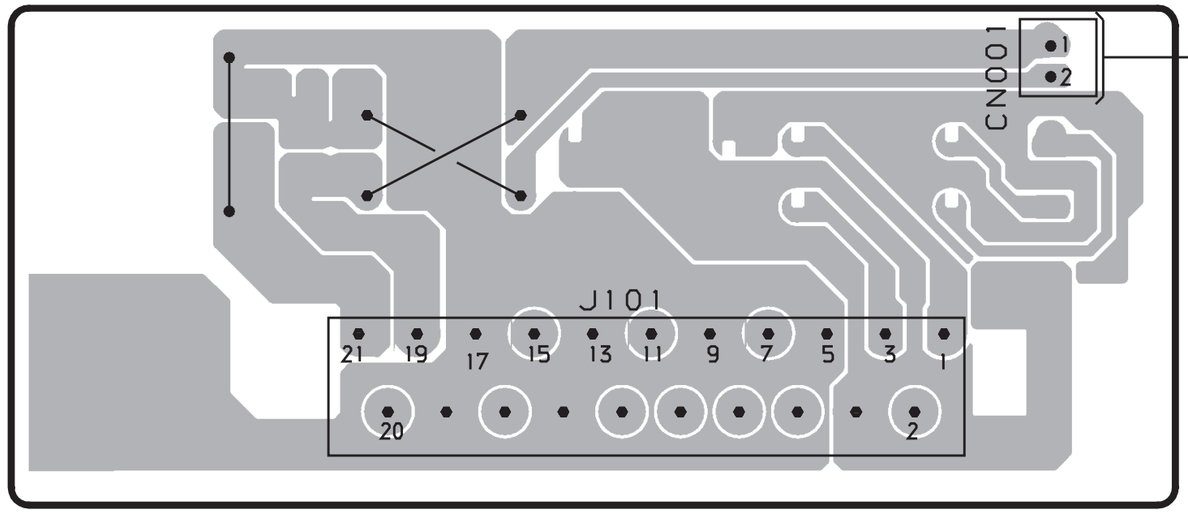
L ÐSP C.B



M FAN C.B

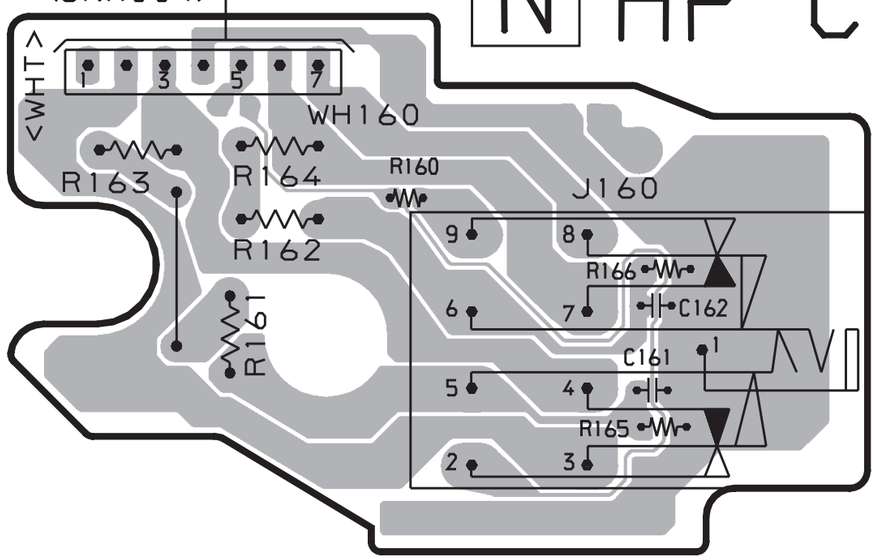


O EURO C.B

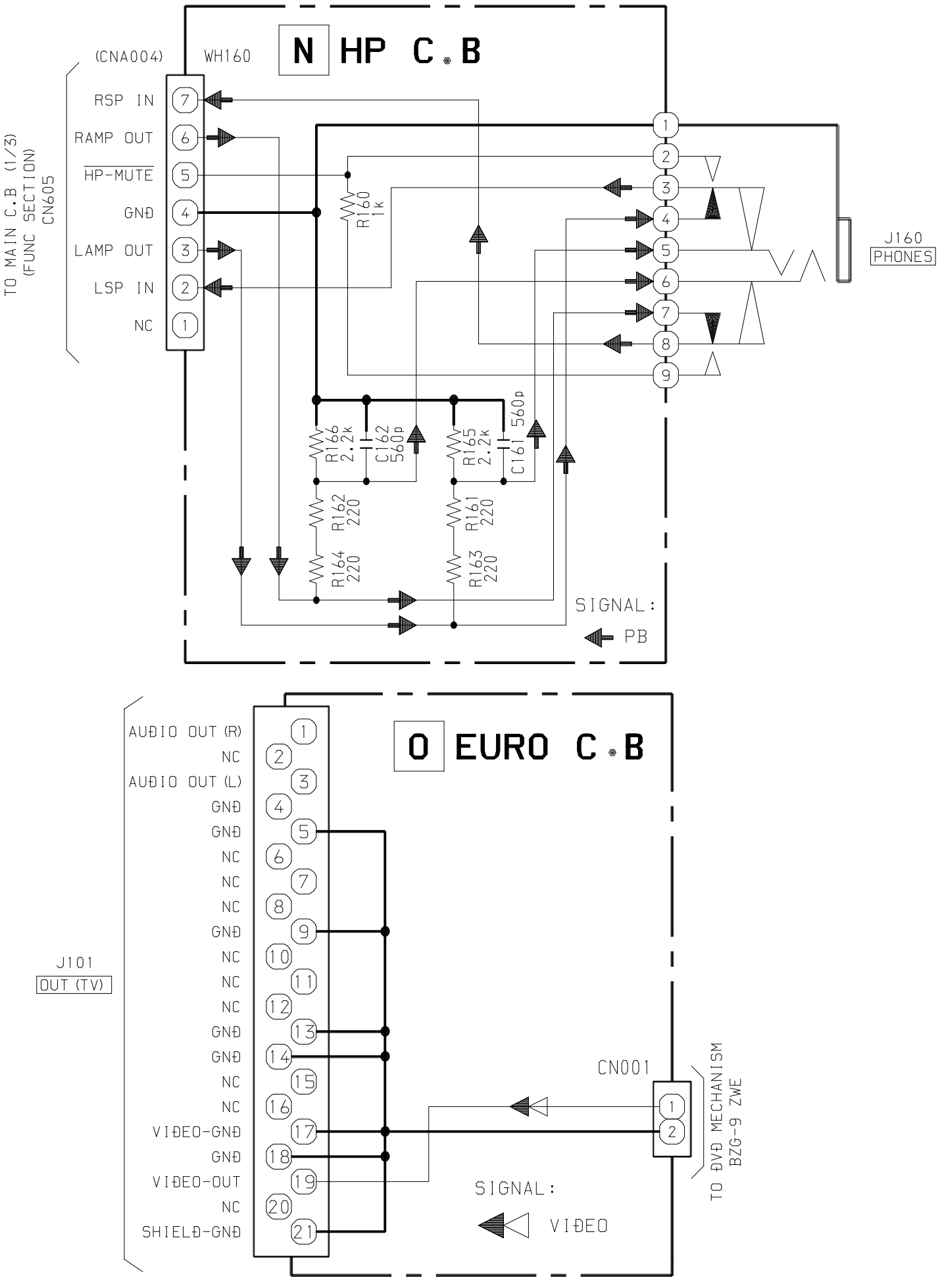


J101
OUT (TV)

N HP C.B

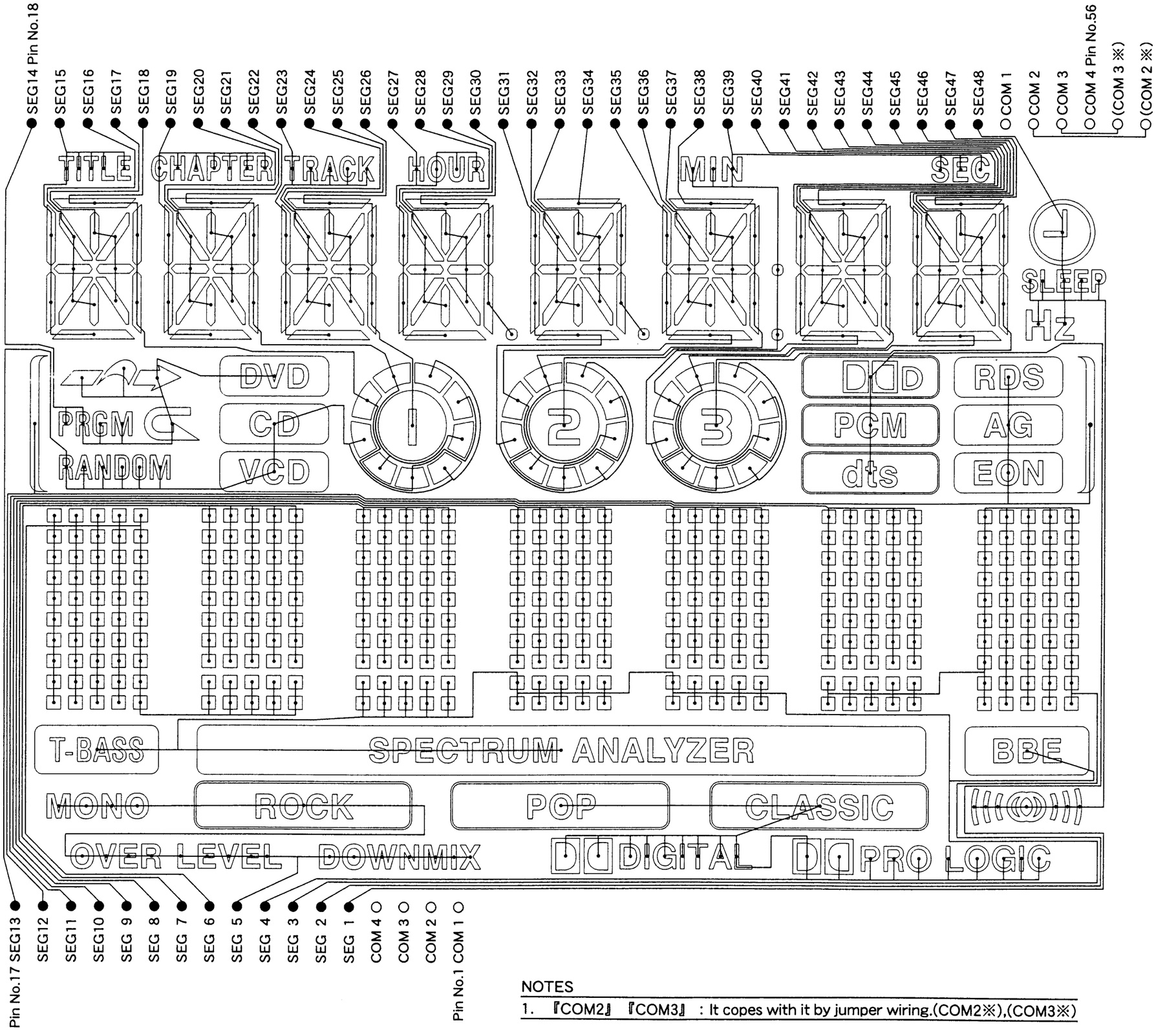


SCHEMATIC DIAGRAM – 8 (HP / EURO)



LCD DIAGRAM

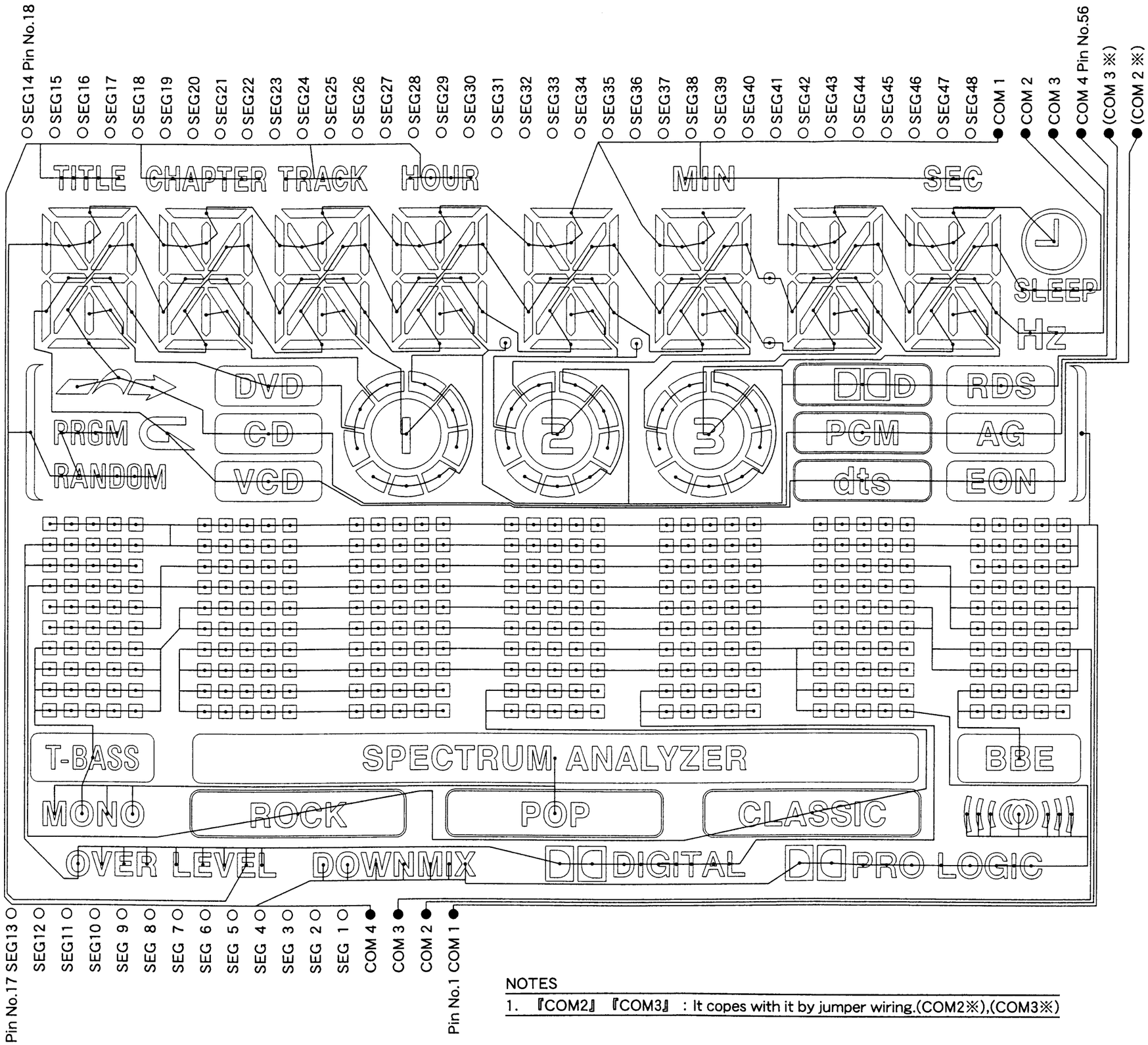
SEGMENT WIRING



NOTES

1. 『COM2』 『COM3』 : It copes with it by jumper wiring.(COM2※),(COM3※)

COMMON WIRING



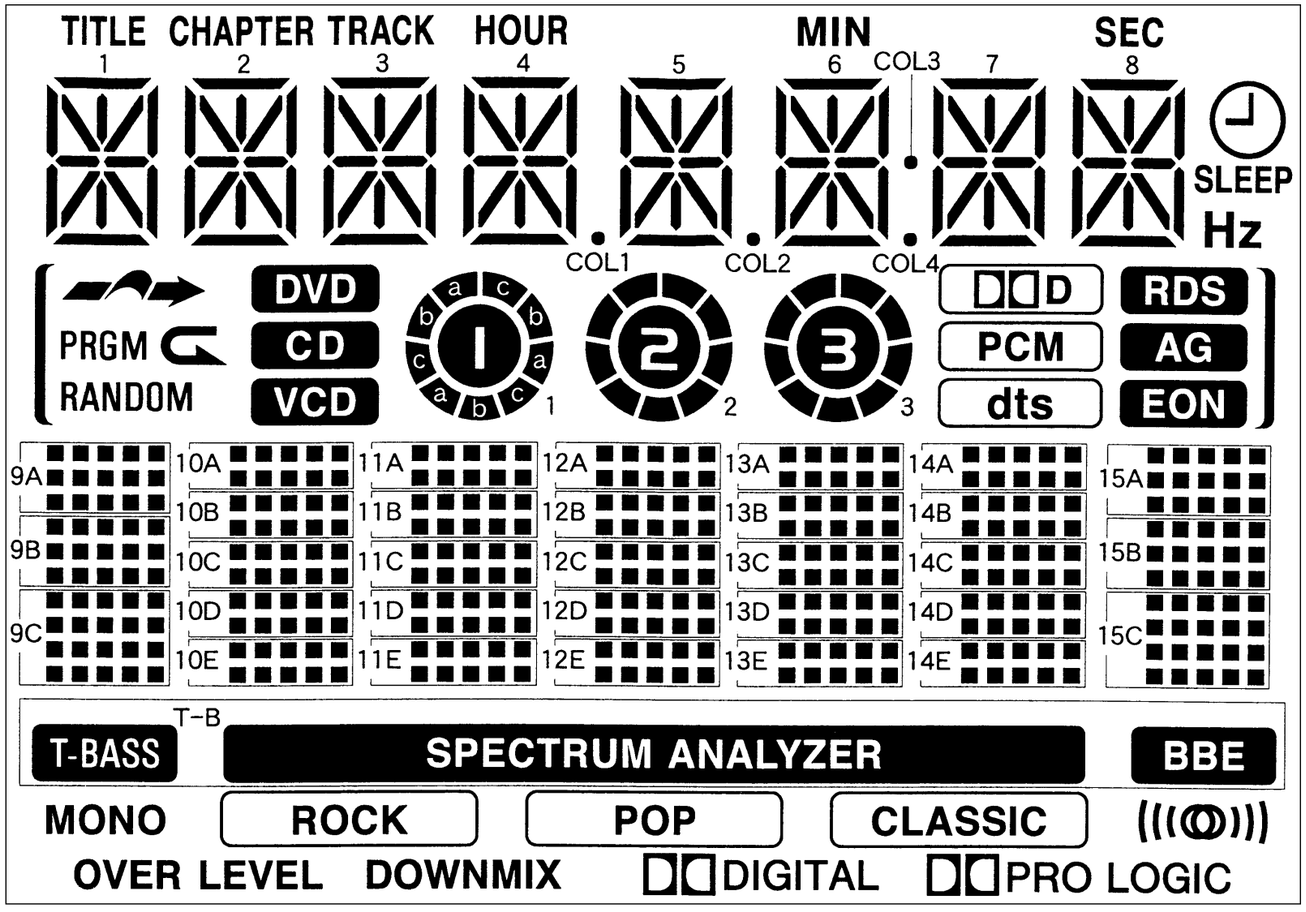
NOTES

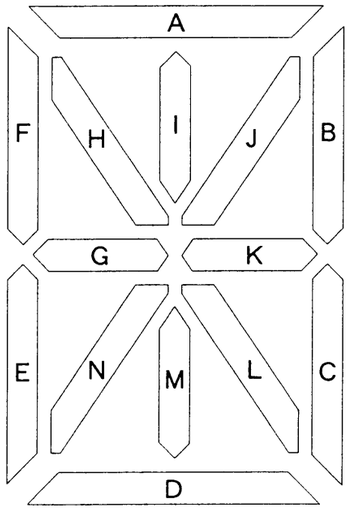
1. 『COM2』 『COM3』 : It copes with it by jumper wiring.(COM2※),(COM3※)

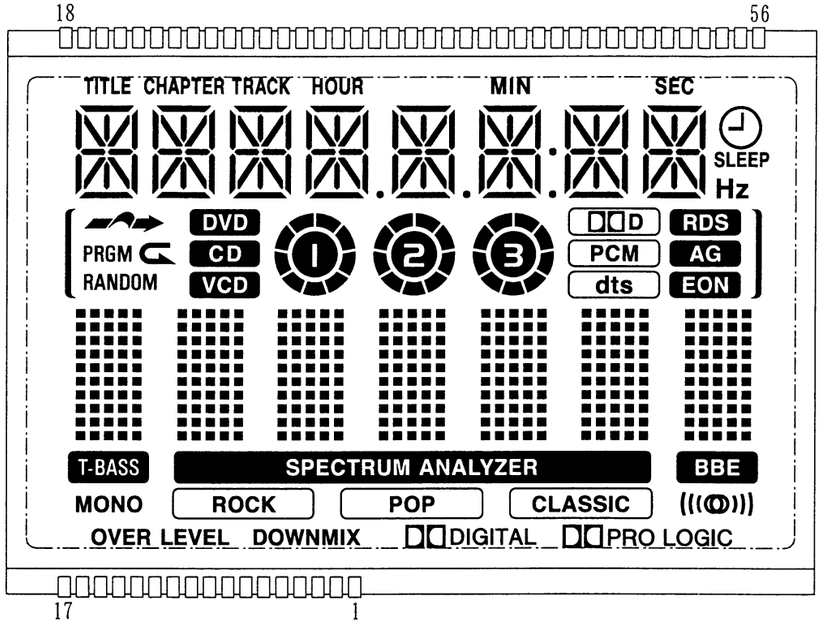
WIRING LIST

No	COM1	COM2	COM3	COM4	No	COM1	COM2	COM3	COM4
1	COM1	– –	– –	– –	29	3I	3J	3K	3L
2	– –	COM2	– –	– –	30	3A	3B	3C	❶
3	– –	– –	COM3	– –	31	4F	4E	4D	HOUR
4	– –	– –	– –	COM4	32	4H	4G	4N	4M
5	– –	dts	PCM	□□D	33	4I	4J	4K	4L
6	15A	15B	15C	14E	34	4A	4B	4C	COL1
7	13E	12E	T-B	11E	35	5F	5E	5D	2-c
8	□□ DIGITAL	CLASSIC	POP	□□ PRO LOGIC	36	5H	5G	5N	5M
9	OVER LEVEL	ROCK	MONO	DOWNMIX	37	5I	5J	5K	5L
10	9A	9B	9C	10E	38	5A	5B	5C	COL2
11	10A	10B	10C	10D	39	6F	6E	6D	2-b
12	11A	11B	11C	11D	40	6H	6G	6N	6M
13	12A	12B	12C	12D	41	6I	6J	6K	6L
14	13A	13B	13C	13D	42	6A	6B	6C	2-a
15	14A	14B	14C	14D	43	MIN,SEC	COL3	COL4	❷
16	[ ]	EON	AG	RDS	44	7F	7E	7D	3-c
17	RANDOM	VCD	CD	1-c	45	7H	7G	7N	7M
18	PRGM	↱	↱	DVD	46	7I	7J	7K	7L
19	1F	1E	1D	TITLE	47	7A	7B	7C	3-b
20	1H	1G	1N	1M	48	8F	8E	8D	3-a
21	1I	1J	1K	1L	49	8H	8G	8N	8M
22	1A	1B	1C	1-b	50	8I	8J	8K	8L
23	2F	2E	2D	CHAPTER	51	8A	8B	8C	❸
24	2H	2G	2N	2M	52	🕘	SLEEP	Hz	(((◎)))
25	2I	2J	2K	2L	53	COM1	– –	– –	– –
26	2A	2B	2C	1-a	54	– –	COM2	– –	– –
27	3F	3E	3D	TRACK	55	– –	– –	COM3	– –
28	3H	3G	3N	3M	56	– –	– –	– –	COM4

CHARACTER NAME

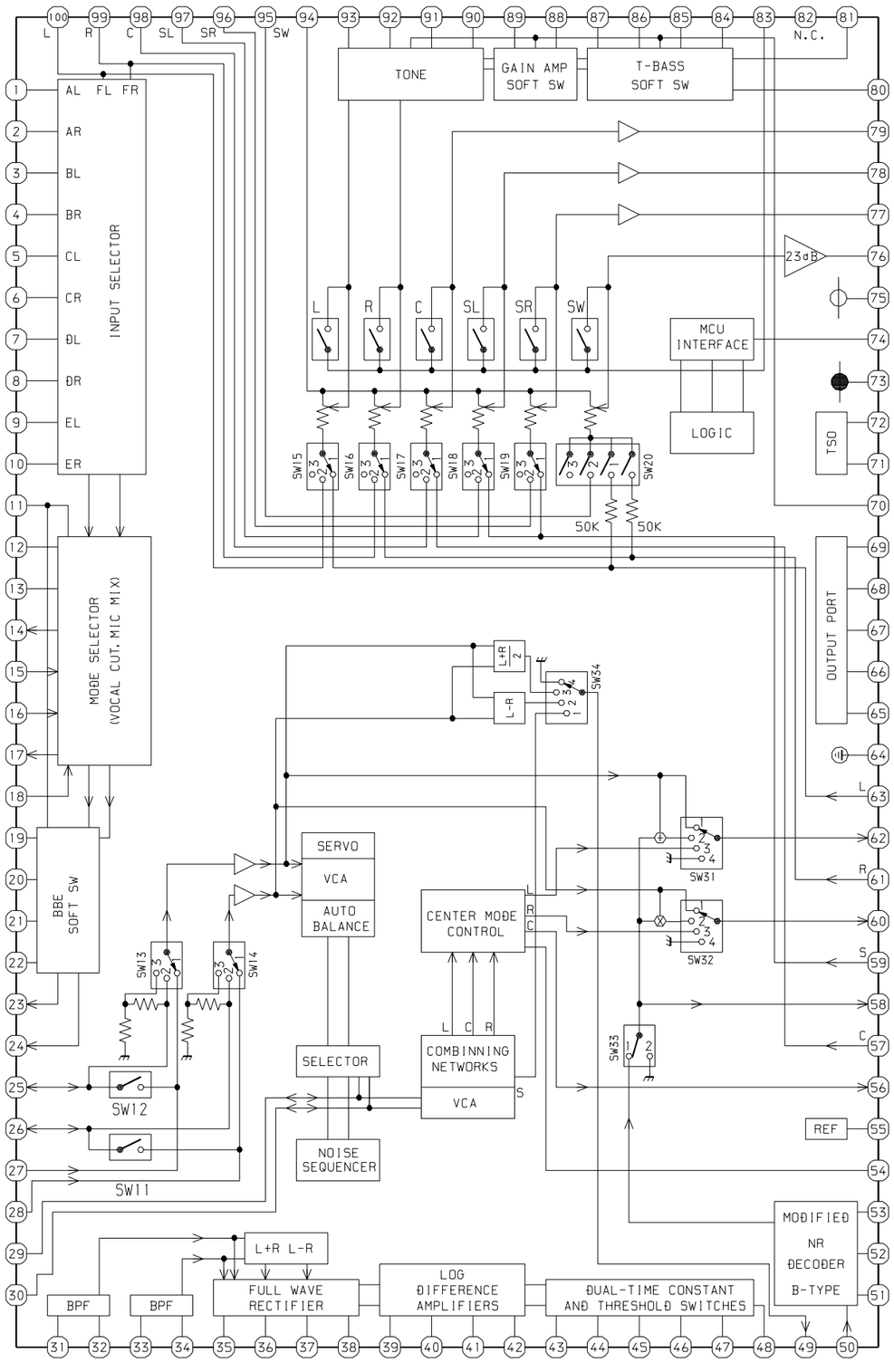




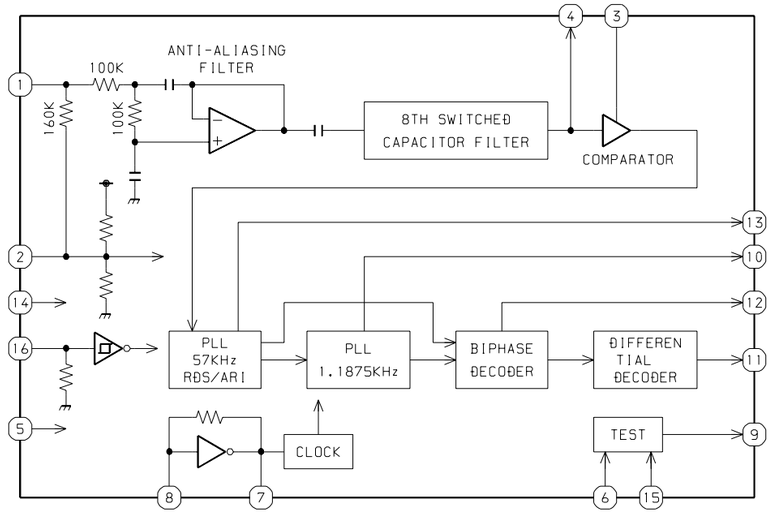


IC BLOCK DIAGRAM

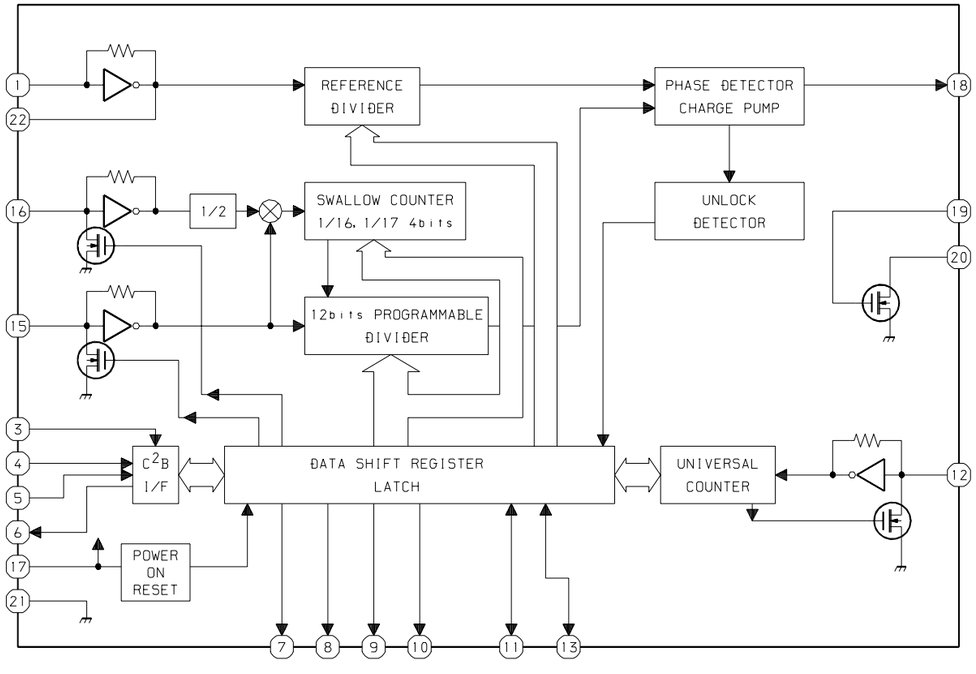
IC, M62466FP



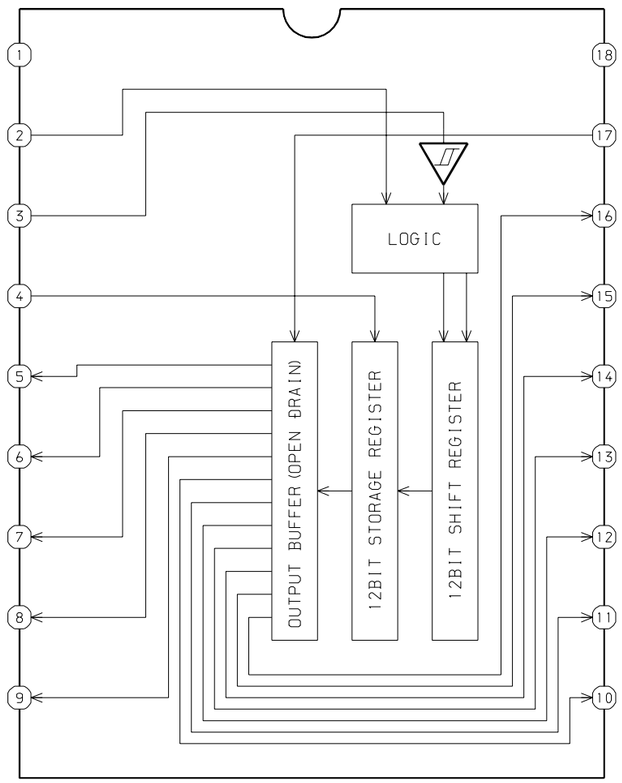
IC, BU1920FS



IC, LC72131Đ-N



IC, BU2092F



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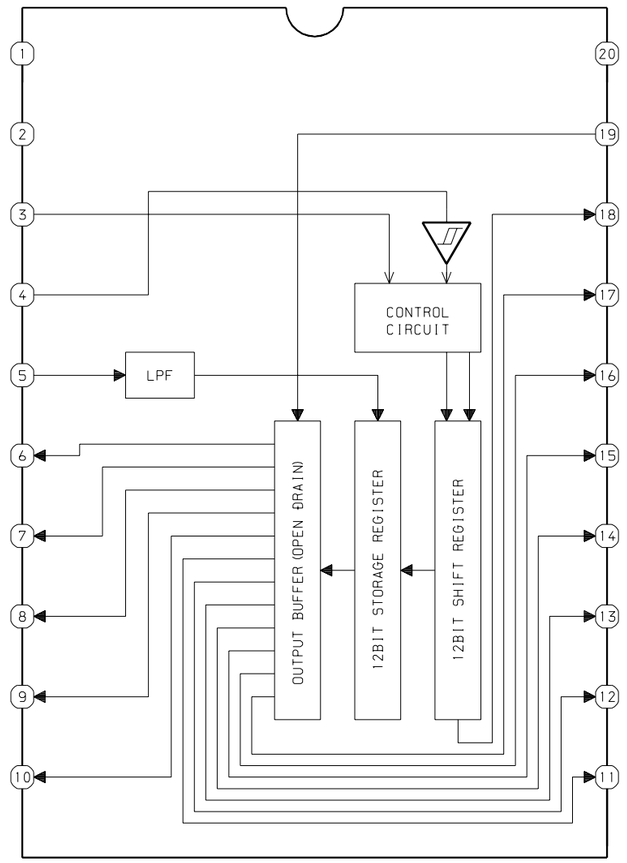

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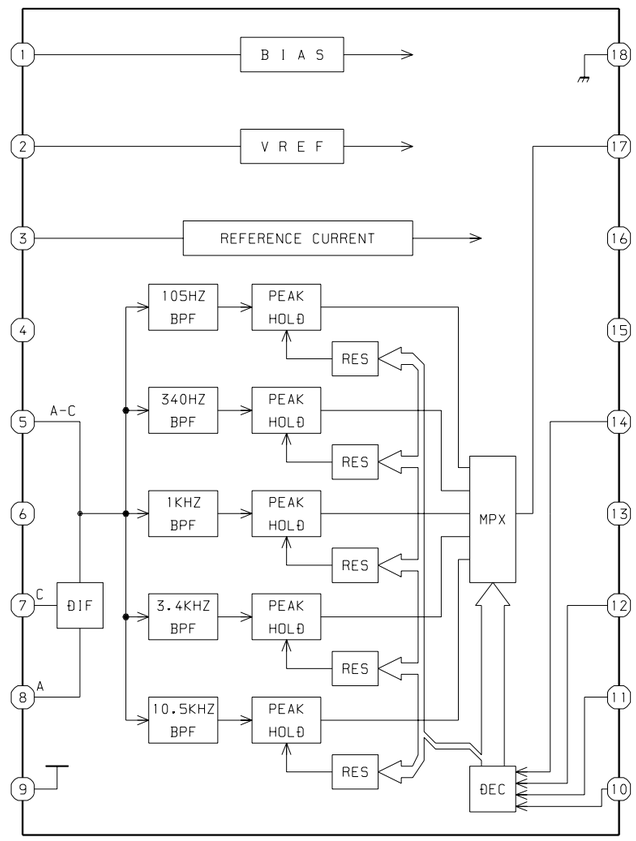
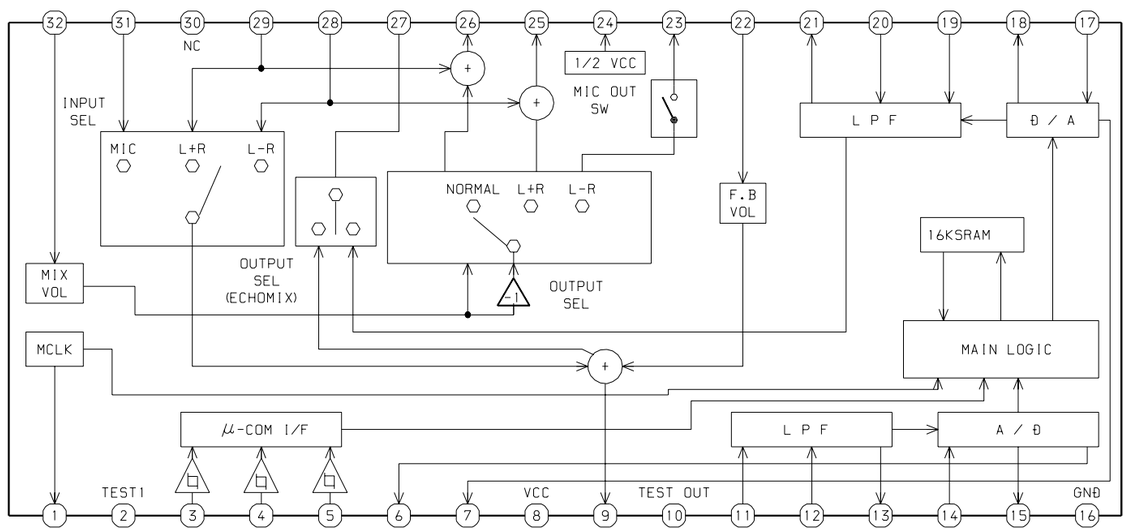
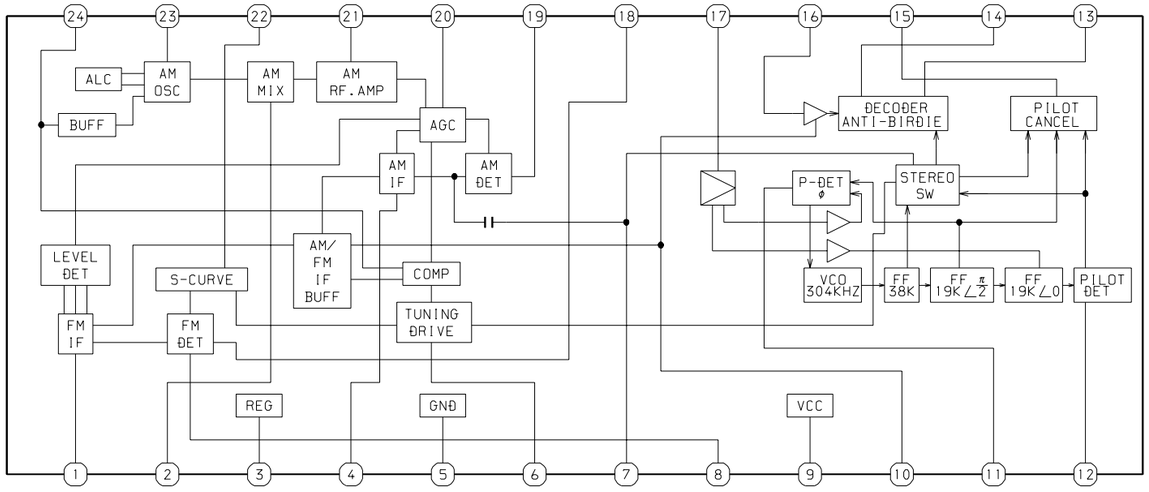


IC, M65849BFP631D



IC, LA1845L



IC DESCRIPTION

IC, LC877256V-5W18

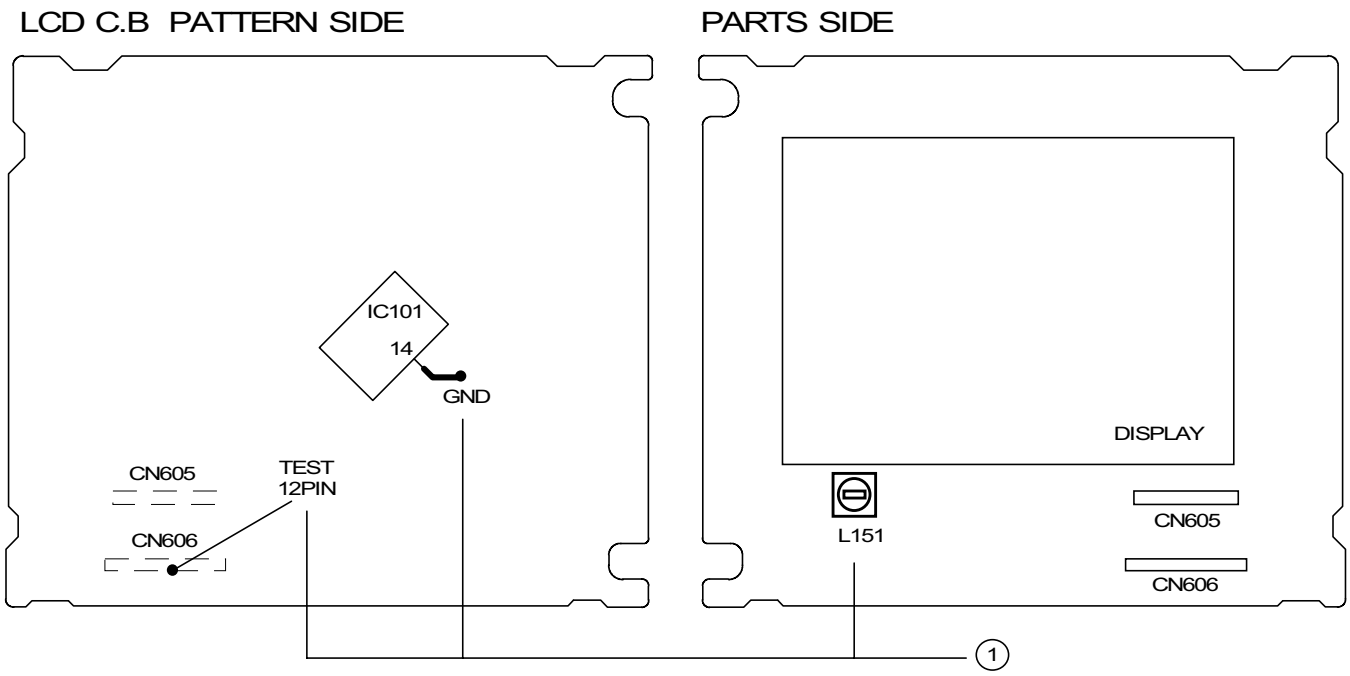
Pin No.	Pin Name	I/O	Description
1	O-$\overline{\text{DVDOE}}$	O	Output enable.
2	O-PLLCE	O	Tuner PLL IC chip enable output.
3	IO-$\overline{\text{BUSY}}$	I/O	Busy for DVD.
4	O-DATA	O	Data output for MAIN-PWB and shift register IC.
5	O-$\overline{\text{MUTE}}$	O	System mute ON/OFF output.
6	O-POWER	O	Power control ON/OFF output.
7	O-SPEANA-A	O	Spectrum analyser BPF switching control A output.
8	O-SPEANA-B	O	Spectrum analyser BPF switching control B output.
9	O-SPEANA-C	O	Spectrum analyser BPF switching control C output.
10	O-BUZZER	O	Buzzer control.
11	$\overline{\text{RES}}$	I	Reset input for MICON.
12	I-TU-SIG	I	Tuner signal input.
13	I-DISH	I	DVD turnable photo sensor input.
14	VSS1	–	Connected to ground.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD1	–	Digital power supply pin.
18	I-$\overline{\text{HOLD}}$	I	Power failure detected input.
19	I-KEY1	I	Key A/D input 1.
20	I-KEY2	I	Key A/D input 2.
21	I-$\overline{\text{HPMUTE}}$	I	For headphones plug insert check.
22	I-SPEANA	I	Spectrum analyser level input.
23	I-JOG	I	Dial jog rotary encoder input .
24	I-VOL	I	Volume rotary encoder input.
25	I-SWLCD	I	Moving panel mecha switch input.
26	I-DVDSW	I	DVD mecha switch input.
27	I-RDS-CLK	I	RDS IC clock input.
28	I-TMBASE	I	Reference clock input for timer switch.
29	I-$\overline{\text{RMC}}$	I	System remote control signal input. “L” : ACTIVE.
30 ~ 53	O-S1 ~ O-S24	O	LCD segment S1 ~ S24 output.
54	VDD2	–	Digital power supply pin.
55	VSS2	–	Connected to ground.
56 ~ 79	O-S25 ~ O-S48	O	LCD segment S25 ~ S48 output.
80	V3	I	LCD bias input.
81	V2	I	LCD bias input.
82	V1	I	LCD bias input.
83 ~ 86	O-COM1 ~ O-COM4	O	LCD driver common.
87	O-DSPCE	O	DSP chip enable.
88	O-DVDSTB	O	STB signal make clock and data effective.
89	VSS3	–	Connected to ground.
90	VDD3	–	Digital power supply pin.
91	O-$\overline{\text{C-SHIFT}}$	O	Micon clock shift output.

Pin No.	Pin Name	I/O	Description
92	I-$\overline{\text{STEREO}}$	I	Tuner stereo detect input.
93	O-LEDSTB	O	STB signal make clock and data effective.
94	O-DVDCLK	O	DVD IC control clock output.
95	I-RDSDATA	I	RDS IC data input.
96	I-DVDDATA	I	Data input for DVD.
97	I-TU-IFC	I	Tuner “TUNE” signal and IF count input.
98	I-$\overline{\text{TOUCH}}$	I	Touch sensor input.
99	O-DVDDATA	O	Data output for DVD.
100	O-CLK	O	Clock output for MAIN-PWB and shift register IC.

IC, LC72131D-N

Pin No.	Pin Name	I/O	Description
1	X-IN	I	A crystal oscillator (4.5MHz) is connected between these pins.
22	X-OUT	O	
2	NC	–	Not connected.
3	CE	I	To enable the IC. Active "H".
4	DI	I	Digital data input from CPU (LC877256V-5W18) when relevant key is operated. Active "H".
5	CL	I	To clock in the data DI.
6	DO	O	Digital data output to CPU (LC877256V-5W18).
7	T-BASE	O	Outputs a reference clock signal (8Hz) for the clock.
8	$\overline{\text{MONO}}$ / BEAT	O	Outputs "H" when MONO / BEAT is switched.
9	$\overline{\text{FM}}$ / $\overline{\text{SW}}$	O	Output "L" or "H" as follows: 2 BAND: AM H, FM L 3 BAND: LW H, MW H, FM L 3 BAND: MW H, SW L, FM L
10	$\overline{\text{MW}}$ / SW	O	Outputs "L" or "H" as follows: 2 BAND: AM L, FM L 3 BAND: LW H, MW L, FM L 3 BAND: MW L, SW H, FM L
11	IF-MUTE	O	To control internal counter.
12	IF-IN	I	General purpose counter input.
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.
14	NC	–	Not connected.
15	AM-IN	I	Receives the AM local oscillator frequency signal.
16	FM-IN	I	Receives the FM local oscillator frequency signal.
17	VDD	–	Supply power to IC (+5V).
18	PD	O	PLL charge pump output.
19	A-IN	I	The MOS transistor used for PLL active low pass filter.
20	A-OUT	O	
21	VSS	–	Ground.

CLOCK ADJUSTMENT



1. CLOCK Adjustment

Requirements

Measuring instrument: Frequency counter

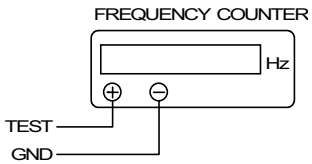
Test point: TEST, GND

(1) While pressing and holding down the DISC CHANGE button, connect the AC plug.

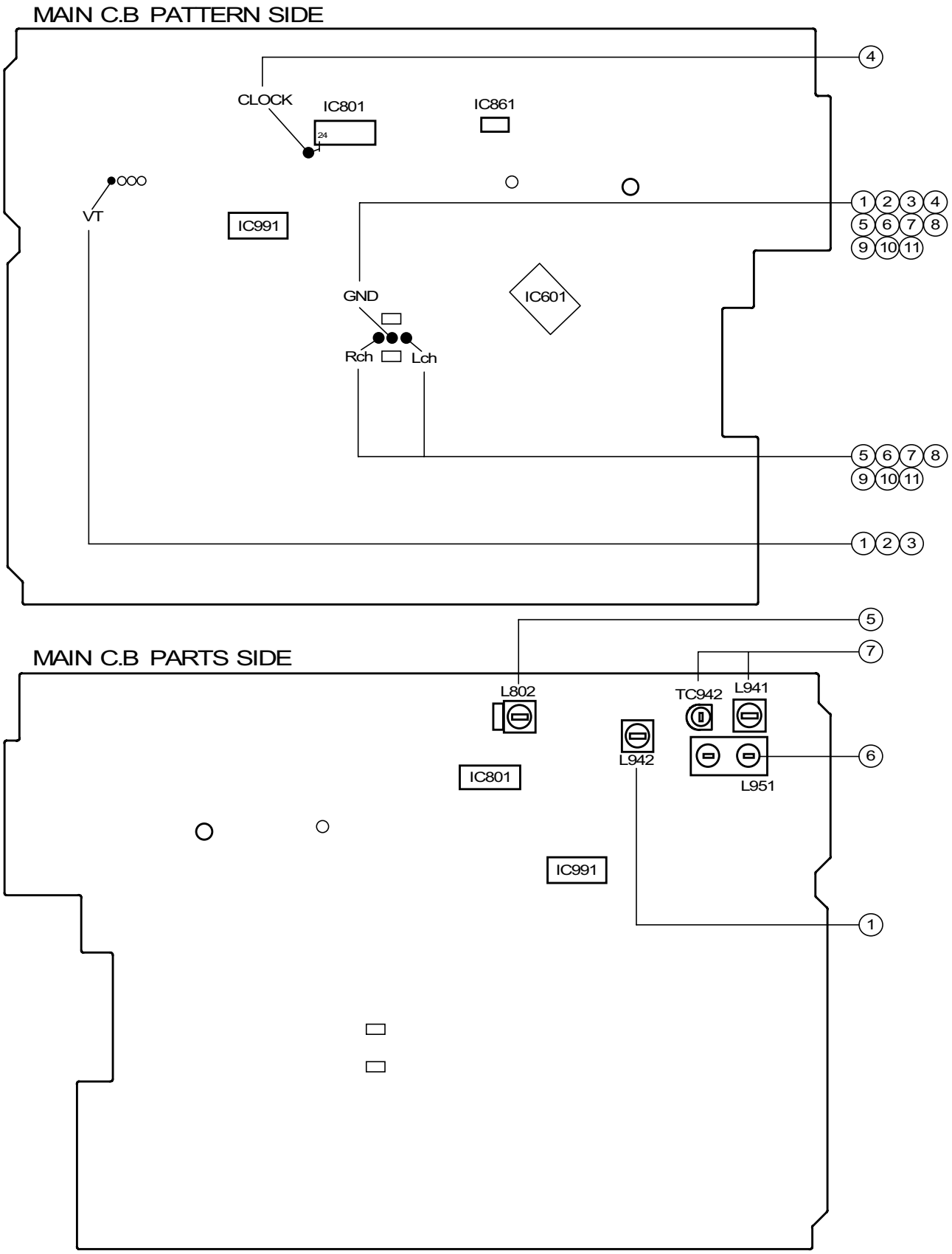
(2) Adjust L151 so that the frequency counter indicates 97.257Hz ± 0.097Hz.

For information: 97.16 ~ 97.257 ~ 97.354 Hz

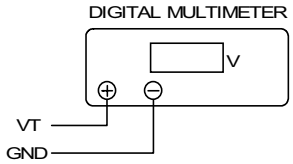
10.272 ~ 10.282 ~ 10.292 msec



TUNER ADJUSTMENT



1. VT Adjustment (LW)



Requirements

Measuring instruments: Digital multimeter

Test point: VT, GND

Adjustment point: L942

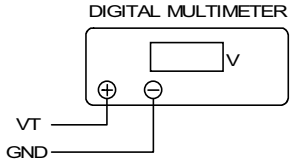
(1) Adjust the receiving frequency of the unit to 144kHz.

(2) Adjust L942 so that the digital multimeter indicates 1.3V ± 0.05V.

(3) Adjust the receiving frequency of the unit to 290kHz.

(4) Check that the digital multimeter indicates 8.0V or below.

2. VT Check (MW)



Requirements

Measuring instruments: Digital multimeter

Test point: VT, GND

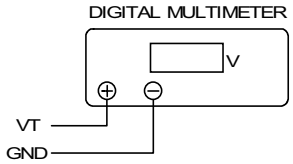
(1) Adjust the receiving frequency of the unit to 1,602kHz.

(2) Check that the digital multimeter indicates 8.0V or below.

(3) Adjust the receiving frequency of the unit to 531kHz.

(4) Check that the digital multimeter indicates 0.6V or above.

3. VT Check (FM)



Requirements

Measuring instruments: Digital multimeter

Test point: VT, GND

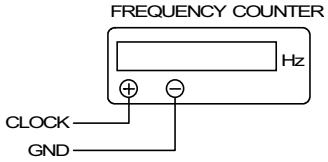
(1) Adjust the receiving frequency of the unit to 108.0MHz.

(2) Check that the digital multimeter indicates 8.0V or below.

(3) Adjust the receiving frequency of the unit to 87.5MHz.

(4) Check that the digital multimeter indicates 0.6V or above.

4. CLOCK Check



Requirements

Measuring instruments: Frequency counter

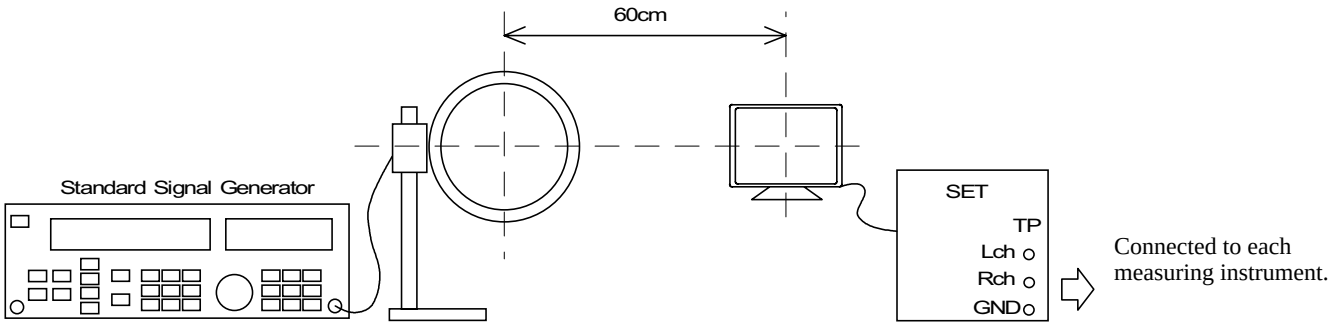
Test point: CLOCK, GND

(1) Set the unit function to MW, and adjust the receiving frequency of the unit to 1,602kHz.

(2) Check that the frequency counter indicates 2,052kHz ± 45Hz.

<MW/LW Adjustment>

Make sure that the wirings/connections shown in the diagram below are in place before MW/LW adjustment.



5. IF Adjustment (MW)

Requirements

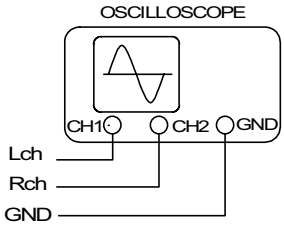
Measuring instruments: Oscilloscope and Millivoltmeter

Test point: Lch, Rch, GND

(1) Adjust the setting on the Standard Signal Generator (hereinafter referred to as S.S.G.) as follows: carrier at 999kHz and distortion rate at 30%.

(2) While monitoring the waveform through oscilloscope, reduce the S.S.G. output level to a minimum.

(3) Adjust L802 so that the millivoltmeter indicates maximum.



6. Tracking Adjustment (MW)

Requirements

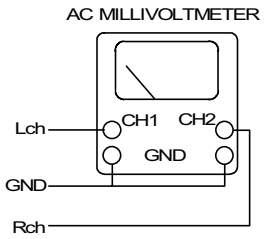
Measuring instruments: Oscilloscope and Millivoltmeter

Test point: Lch, Rch, GND

(1) Adjust the S.S.G. setting as follows: carrier at 999kHz and distortion rate at 30%.

(2) While monitoring the waveform through oscilloscope, reduce the S.S.G. output level to a minimum.

(3) Adjust L951 so that the millivoltmeter indicates maximum



7. Tracking Adjustment (LW)

Requirements

Measuring instruments: Oscilloscope and Millivoltmeter

Test point: Lch, Rch, GND

(1) Adjust the S.S.G. setting as follows: carrier at 144kHz and distortion rate at 30%. Reduce the S.S.G. output level to a minimum

(2) Adjust L941 so that the millivoltmeter indicates maximum.

(3) Adjust the S.S.G. setting as follows: carrier at 290kHz and distortion rate at 75kHz. Reduce the S.S.G. output level to a minimum

(4) Adjust TC942 so that the millivoltmeter indicates maximum.

(5) Repeat the above steps (1) to (4) two to three times.

8. Auto-Stop Function Check (MW)

Requirements

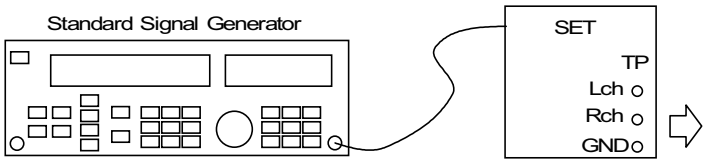
Test point: Lch, Rch, GND

(1) Adjust the S.S.G. setting as follows: carrier at 999kHz, distortion rate at 30%, and output level at 78dBuv.

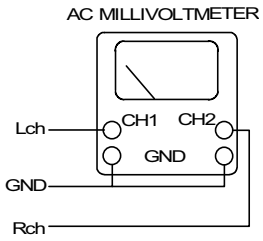
(2) Start the tuning search mode, and check that the auto-stop function is applied at 999kHz.

<FM Adjustment>

Make sure that the wirings/connections as shown in the diagram below are established before FM adjustment.



9. Tracking Check



Requirements

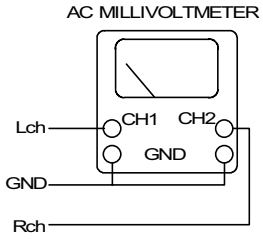
Measuring instruments: Millivoltmeter

Test point: Lch, Rch, GND

(1) Adjust the S.S.G. setting as follows: carrier at 98.0MHz, distortion rate at 75kHz, and output level at 72dBuV.

(2) Check that the millivoltmeter indicates approximately 250mV or below.

10. Separation Check



Requirements

Measuring instruments: Millivoltmeter

Test point: Lch, Rch, GND

(1) Adjust the S.S.G. setting as follows: carrier at 98.0MHz, distortion rate at 67.5kHz, and output at 72dBuV.

(2) Switch the S.S.G. to PILOT ON, and set at PILOT 7.5kHz.

(3) Check that the S.S.G. outputs only from Lch and that the difference between Lch and Rch at that time indicates 12dB or below.

(4) Check for Rch in the same manner.

11. Auto-Stop Function Check (FM)

Requirements

Test point: Lch, Rch, GND

(1) Adjust the S.S.G. setting as follows: carrier at 98.0MHz, distortion rate at 75kHz, and output at 40dBuV.

(2) Start the tuning search mode, and check that the auto-stop function is applied at 98.0MHz.

DVD TEST MODE

There are three types of DVD test mode which are described below.
Use any of the test modes as required.

1. Status/Media Display Mode

1-1. Starting Status/Media Display Mode

Connect the AC plug while pressing and holding down the DISC PLAY/BAND button.
When the FL display lights up, the test mode is activated.

1-2. Exiting Status/Media Display Mode

Unplug the AC plug.
The following are alternative ways to exit the mode:

- Switch functions by pressing the function buttons except the DVD/CD button.
- Press the POWER button.

1-3. Status/Media Display Mode Functions

The FL display appears “S** M**” while Status/Media Display Mode is on.
“S**” shows status.

Status Display	**Description**
S41	PICK-UP inner track STOP
S42	PICK-UP inner track resume-data STOP
S43	PLAY
S44	PAUSE
S45	SKIP
S46	TOC READ
S47	Signal for EEPROM WRITE end
S48	Status undetermined
S49	Signal for DISC END

“M**” shows media types.

Media Display	**Description**
M00	DISC search
M21	NO DISC
M22	CD-DA
M23	VCD(Ver1.0 or Ver1.1)
M24	VCD(Ver2.0)
M25	DVD

Any information, other than the above status and media (figures), implies that all data is invalid.

Normal display

While the DVD/CD button is being pressed during Status/Media Display Mode activation, the mode is in normal display.

2. FRONTEND TEST MODE

2-1. Starting Frontend Test Mode

2-1-1. Starting in Status/Media Display Mode

1) When Status/Media Display Mode is activated, insert the test disc, and start TOC READ.
2) Press the SETUP and PLAY buttons at the same time for over three seconds.

2-1-2. Starting in Normal Mode

1) Insert the test disc, and start TOC READ.
2) When the disc stops, press the remote control buttons in the following order within two seconds:
"RETURN" → "ANGLE" → "RETURN" → "C".
When FRONTEND TEST MODE is activated, the FL display appears "FE TEST".

2-2. Exiting Frontend Test Mode

Unplug the AC plug.

The following are alternative ways to exit the mode:

- Switch functions by pressing the function buttons except the DVD/CD button.
- Press the POWER button.

2-3. Frontend Test Mode Buttons and Functions

The function buttons on the main unit and remote control, and their operations are shown in the chart below.

Status	Main Unit Buttons	Remote Control Buttons	Operation
STOP	FF	"1"	Sled forward
	RWD	"2"	Sled rewind
	RETURN	"3"	Spindle motor continuous kick (clockwise)
	ENTER	"4"	Laser ON/OFF
	PLAY	"7"	PLAY (ALL SERVO ON)
PLAY	STOP	"6"	STOP (ALL SERVO OFF)

The following are the details of each operation.

2-3-1. Sled Forward

PU moves to the outer track with the "FF" button on the main unit or "1" button on the remote control in Stop mode.
To stop, press the "STOP" button on the main unit or "6" button on the remote control; else PU will not stop and move to the further outer track.

2-3-2. Sled Rewind

PU moves to the inner track when the "RWD" button on the main unit or "2" button on the remote control is pressed in Stop mode.

2-3-3. Spindle Motor Continuous Kick (clockwise)

Spindle rotates clockwise by pressing the "RETURN" button on the main unit or "3" button on the remote control in Stop mode.
To stop the operation, press the "STOP" button on the main unit or "6" button on the remote control.

2-3-4. Laser ON/OFF

The laser turns on/off by pressing the "ENTER" button on the main unit or "4" button on the remote control in Stop mode.
Each time the button is pressed, the following operations occur accordingly:
"DVD Laser ON" → "CD Laser ON" → "Laser OFF" → "DVD Laser ON" → "CD Laser ON" → "Laser OFF" → .....

2-3-5. PLAY (ALL SERVO ON)

The test mode begins and detects the disc by pressing the “PLAY” button on the main unit or “7” button on the remote control in Stop mode.

During the test mode activation, neither sound nor pictures appear.

To stop the operation, press the “STOP” button on the main unit or “6” button on the remote control.

2-3-6. STOP (AAL SERCO OFF)

The “STOP” button on the main unit or “6” button on the remote control returns to the Stop mode.

3. TEST DISPLAY MODE

3-1. Starting TEST DISPLAY MODE

When the disc stops in normal mode, press the remote control buttons in the following order within two seconds:

“RETURN” → “ZOOM” → “RETURN” → “C”.

When TEST DISPLAY MODE is activated, the FL display appears “H***_*_*” for four seconds.

3-2. Exiting TEST DISPLAY MODE

Disconnect the AC plug.

The following are alternative ways to exit the mode:

- Switch functions by pressing the function buttons except the DVD/CD button.
- Press the POWER button.

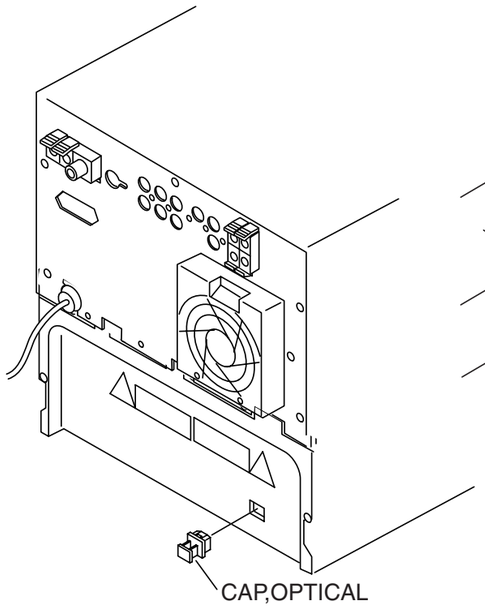
3-3. Functions

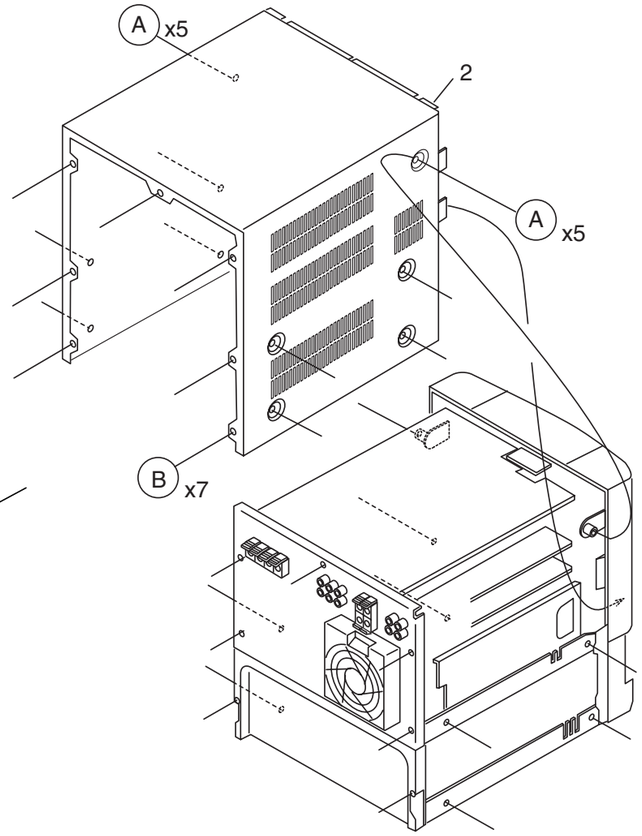
In TEST DISPLAY MODE, the NTSC/PAL and Region can be confirmed with the display “H***_*_*” which appears for four seconds.

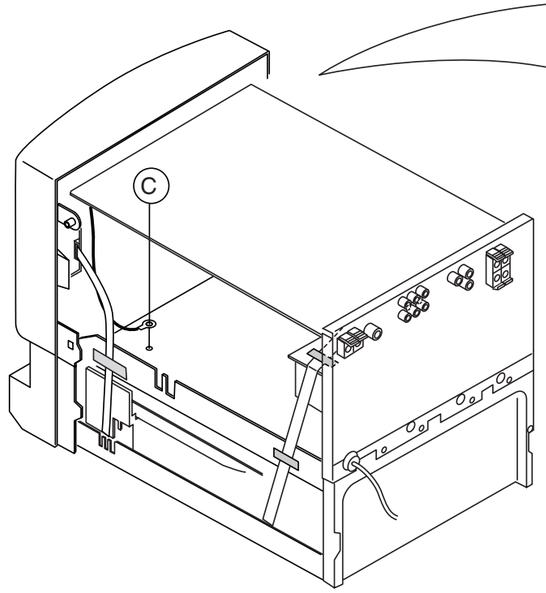
Example;

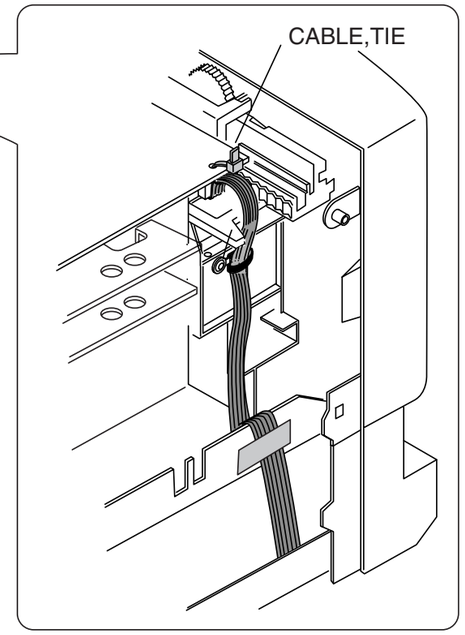
“H***_P_2”

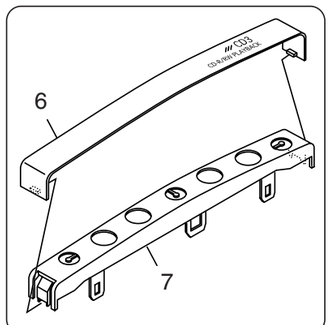
This implies PAL and Region 2.

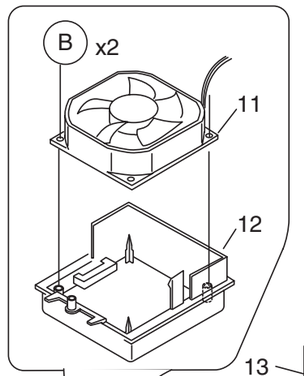


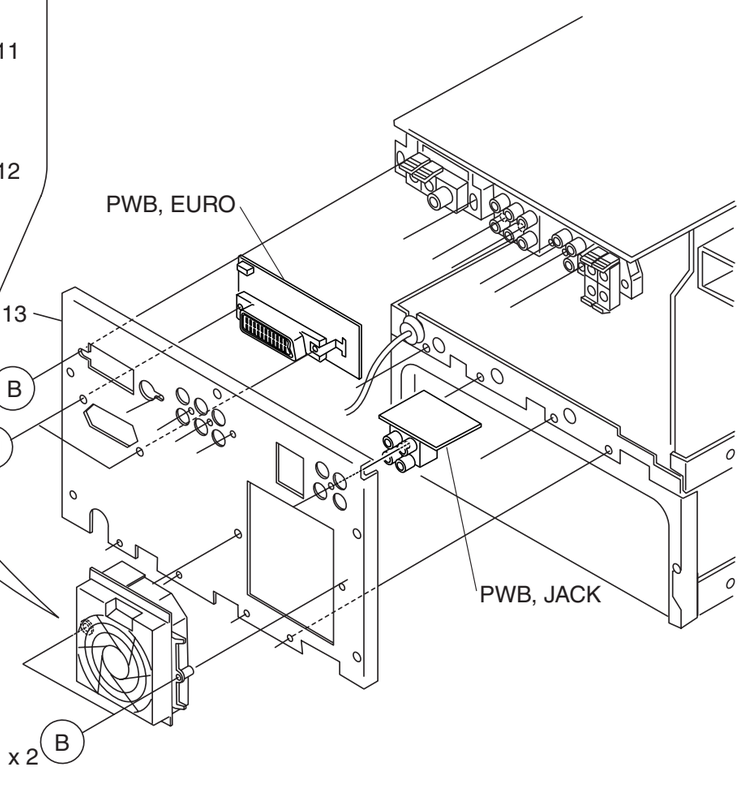

A x5
2
A x5
B x7

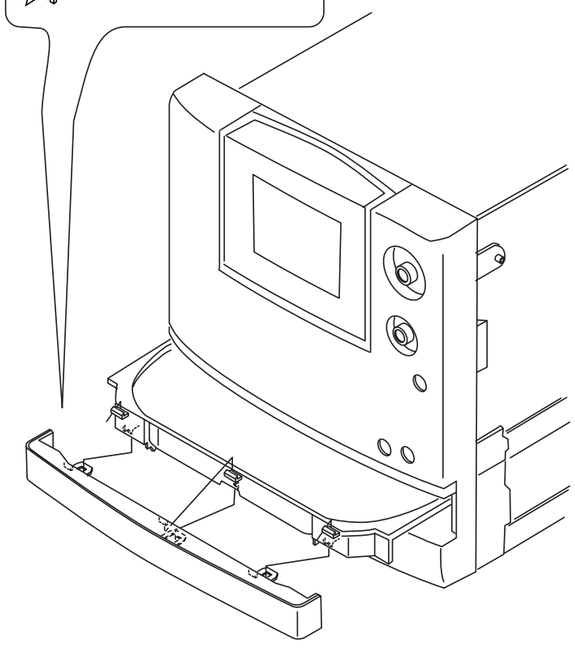

C

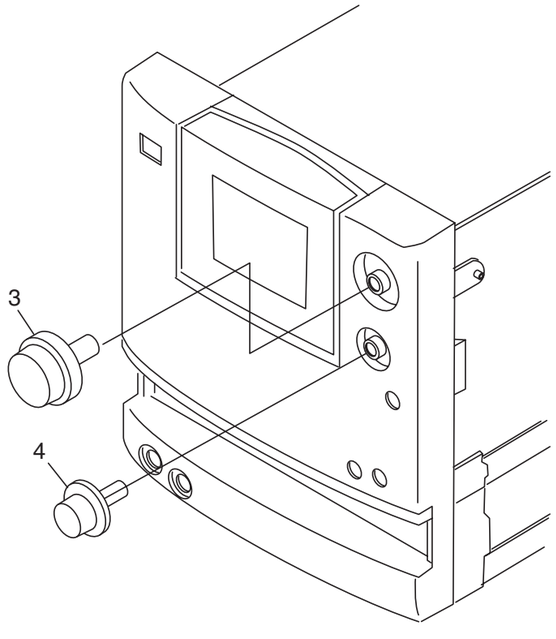

CABLE,TIE

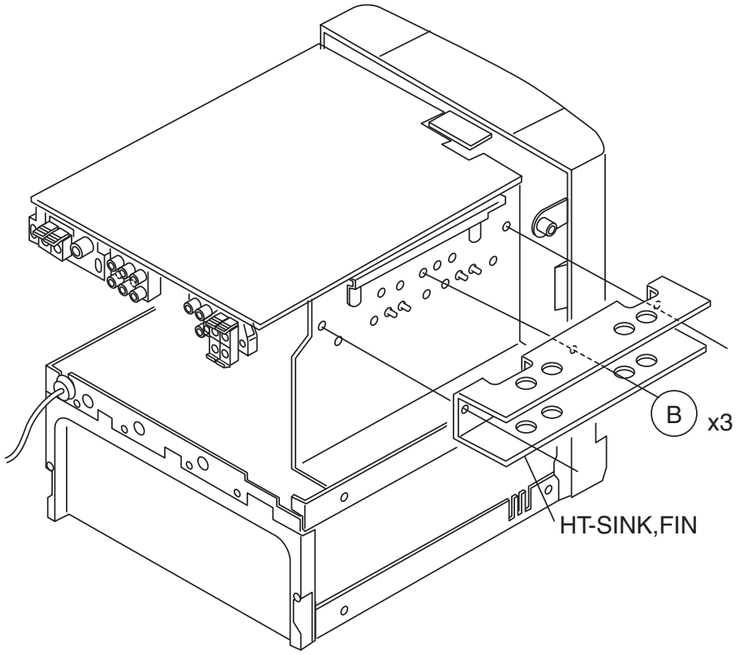

6
7

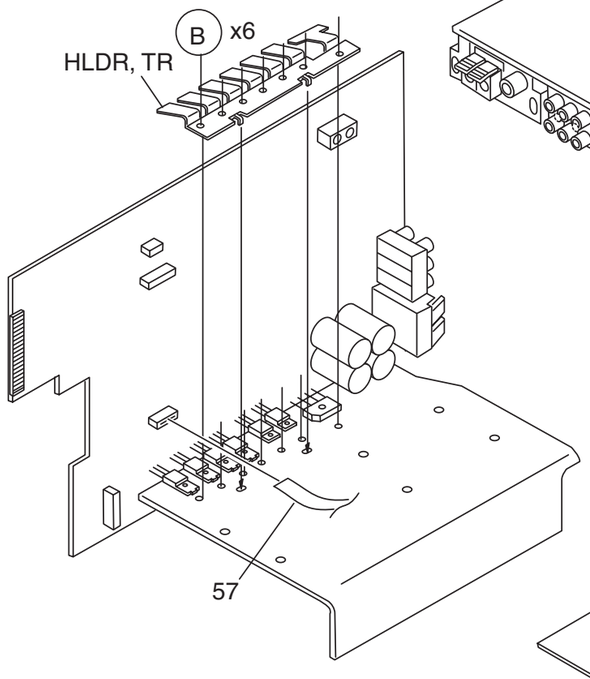

B x2
11
12

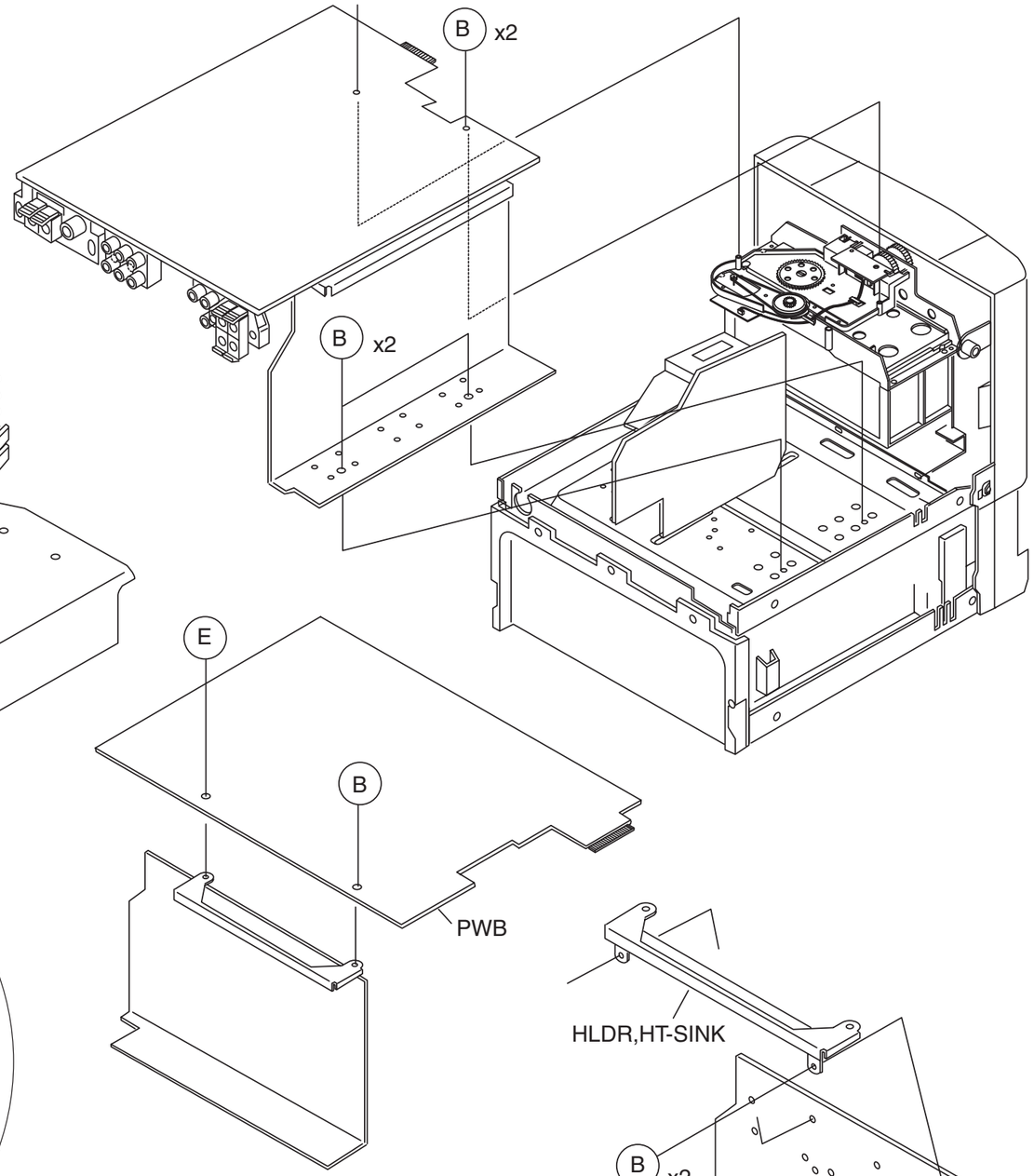

PWB, EURO
13
B
x9
M
x 2
PWB, JACK
B
x 2

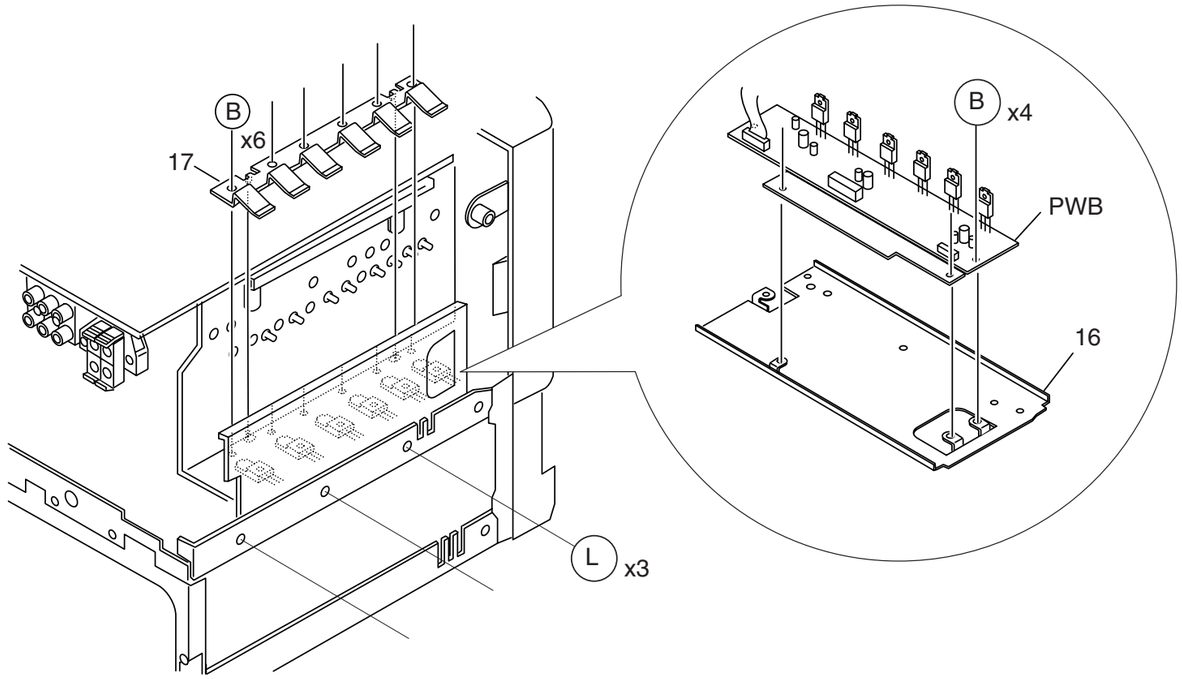


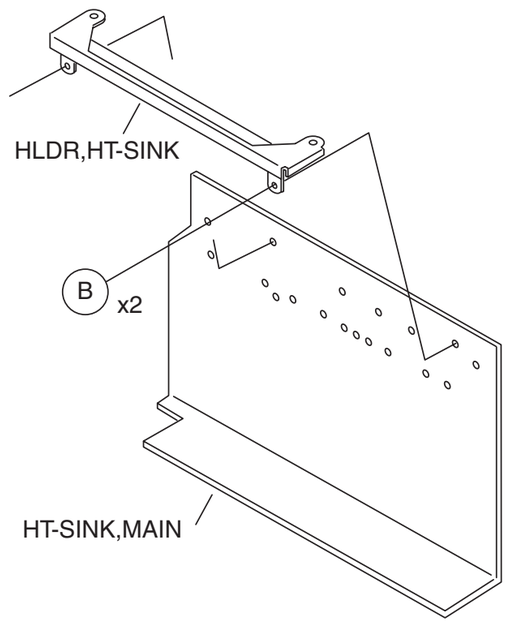

3
4

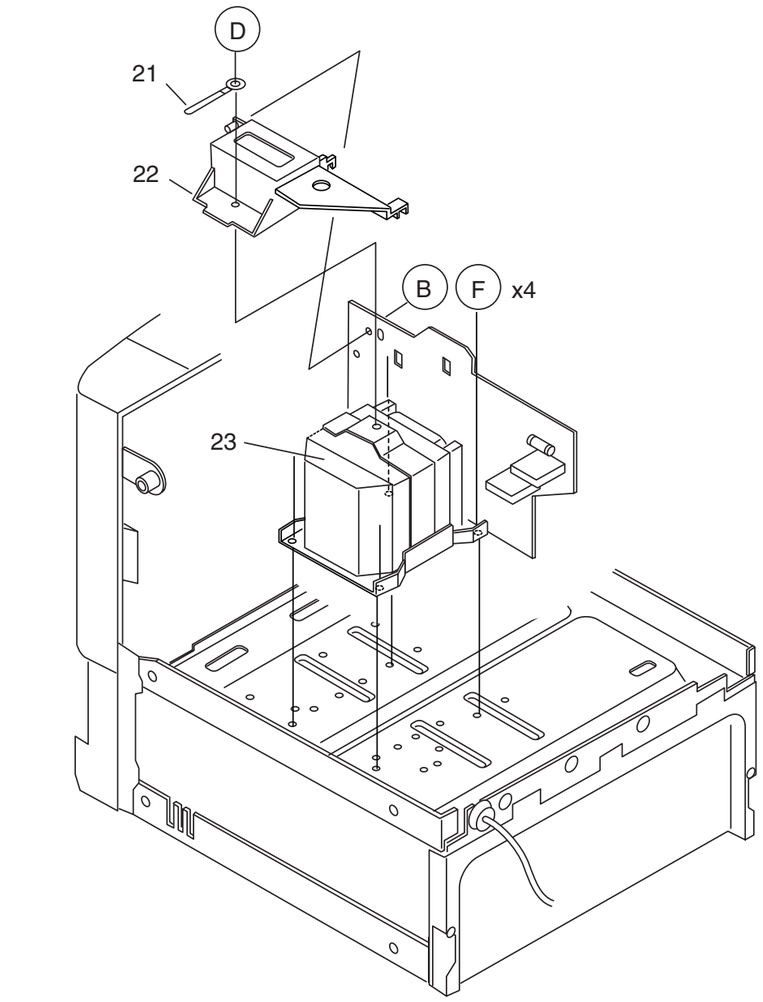

B x3
HT-SINK,FIN

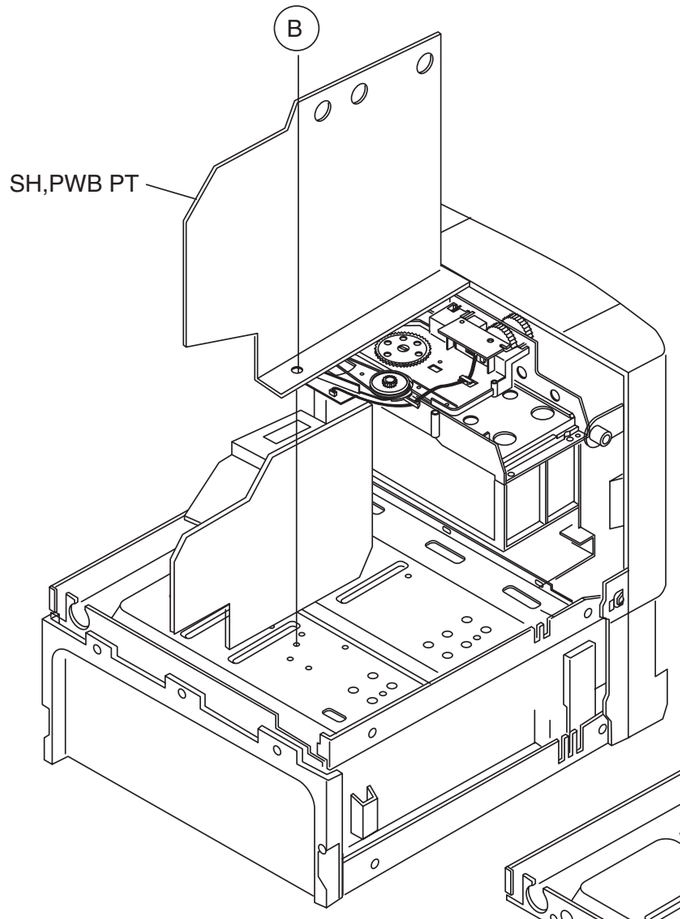

B x6
HLDR, TR
57

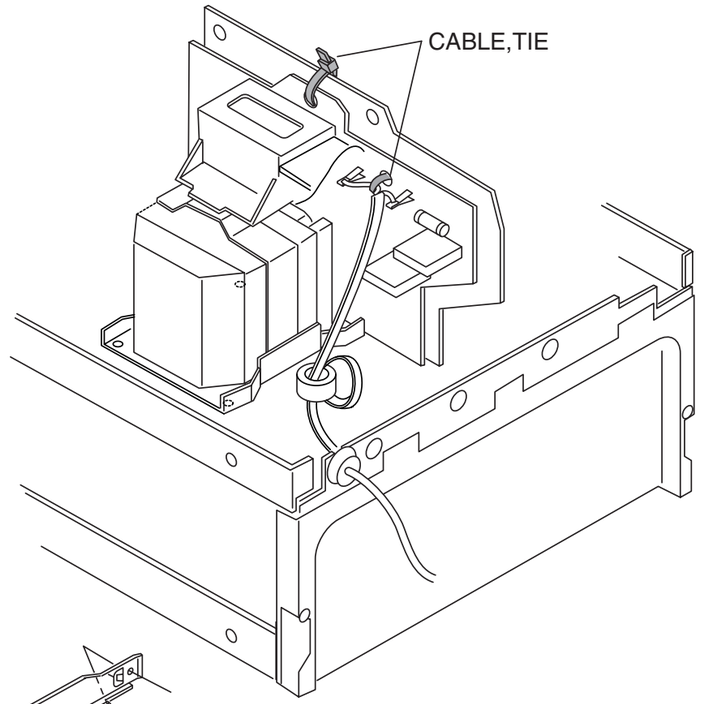

B x2
B x2
E
B
PWB

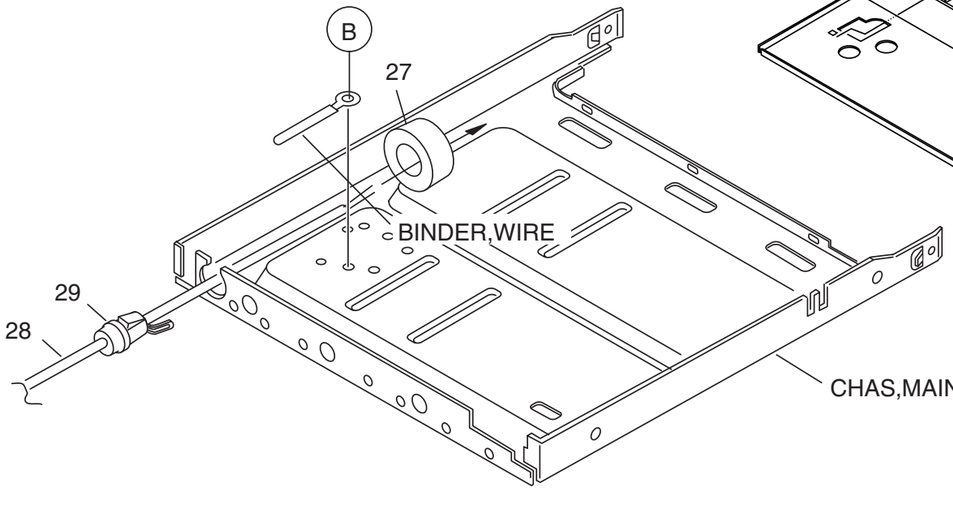

B x6
17
B x4
PWB
16
L x3

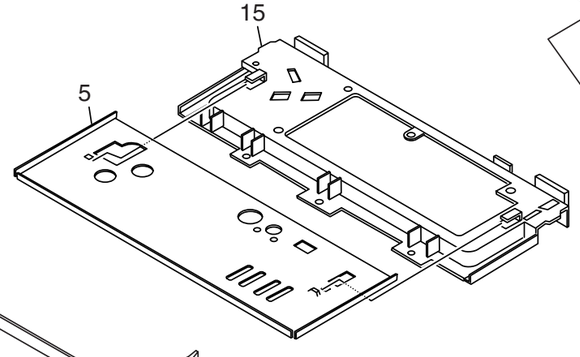

HLDR,HT-SINK
B x2
HT-SINK,MAIN


D
21
22
B
F
x4
23


B
SH,PWB PT


CABLE,TIE


B
27
BINDER,WIRE
29
28
CHAS,MAIN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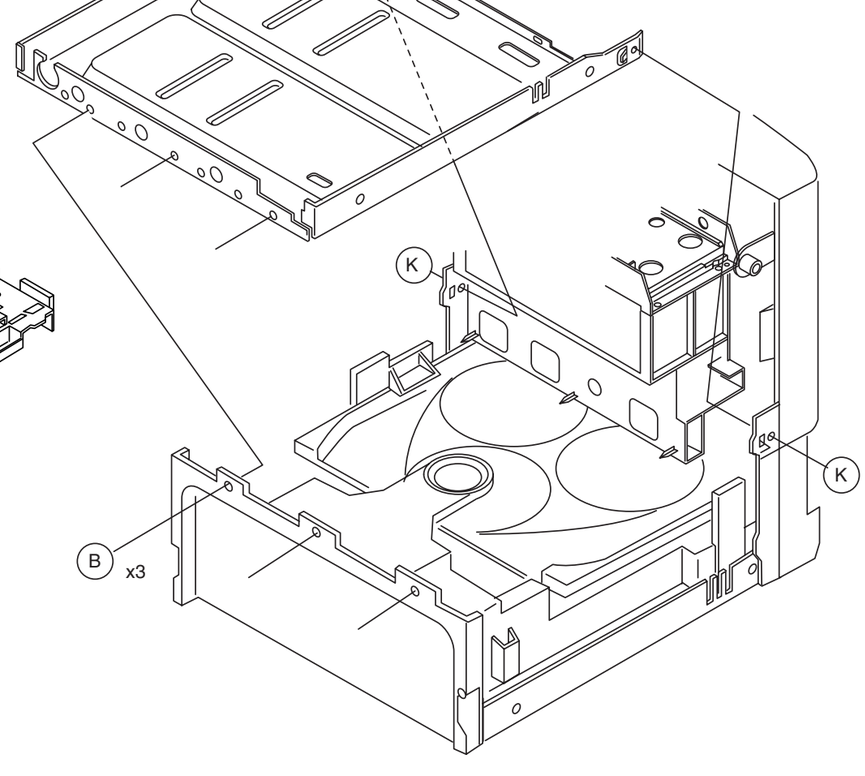
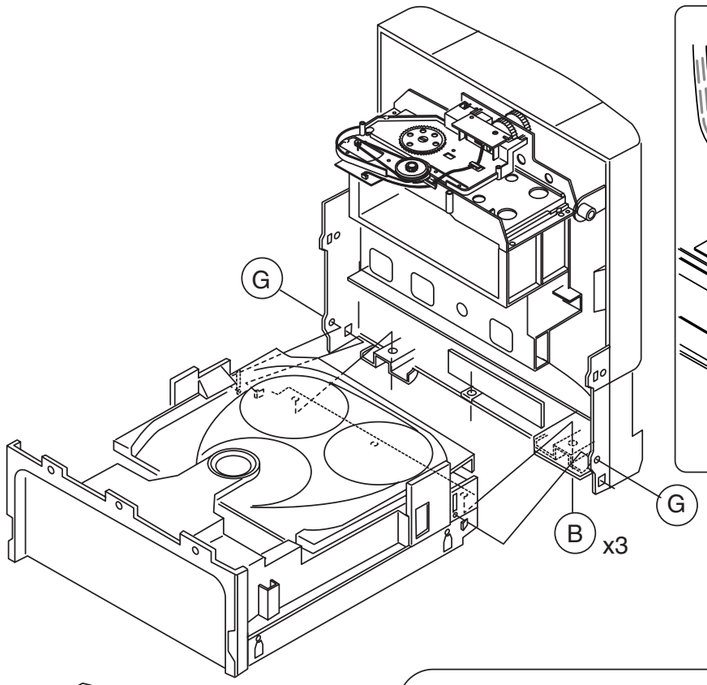
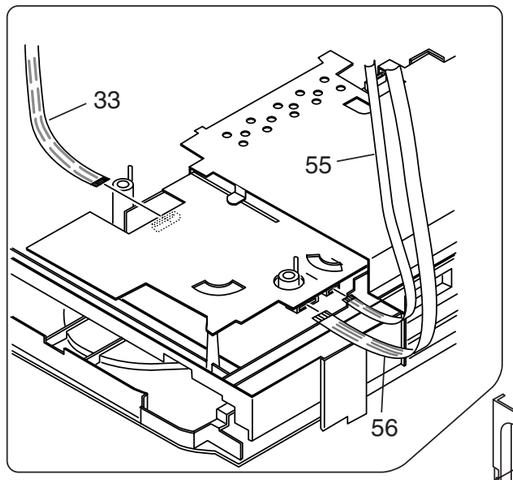

K
K
B
x3


G
B x3
G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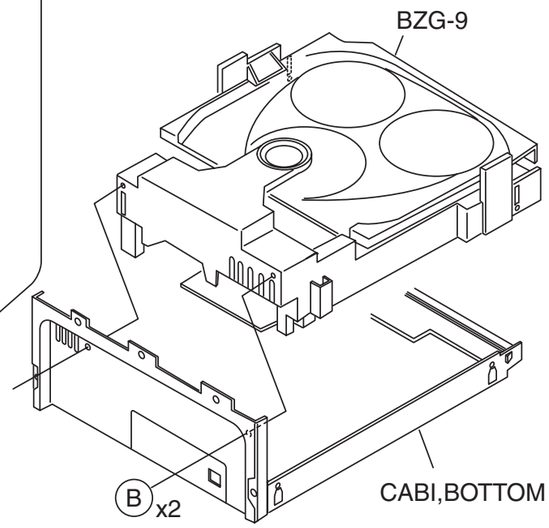
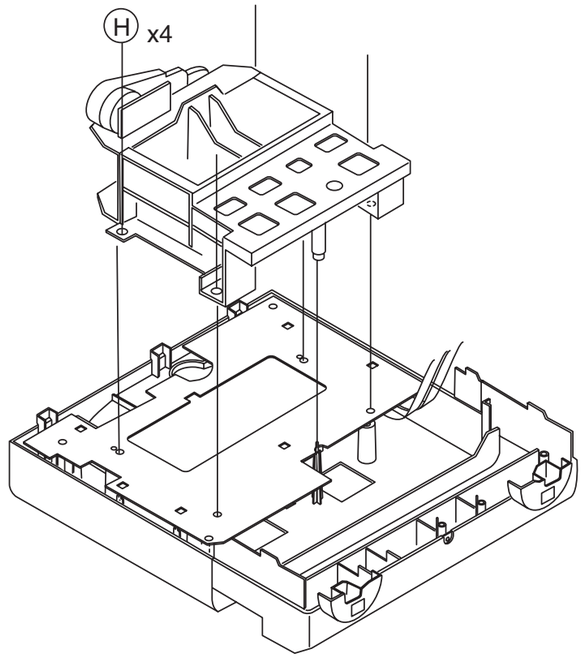
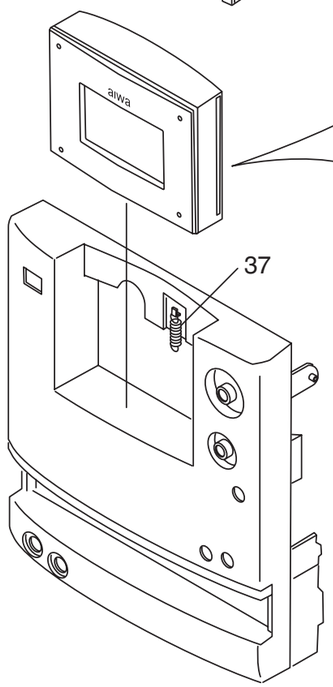
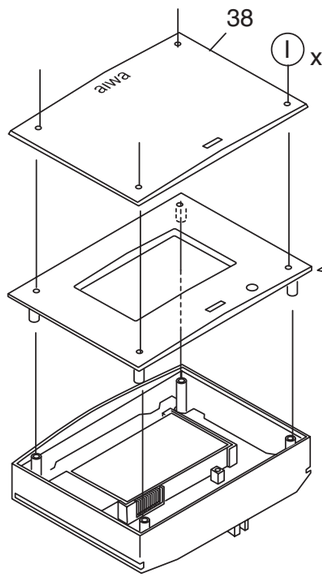
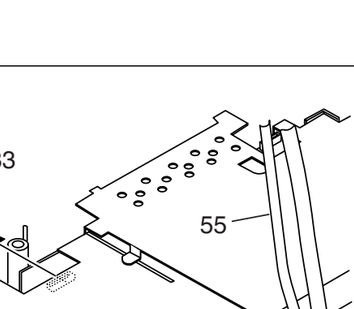
55
56

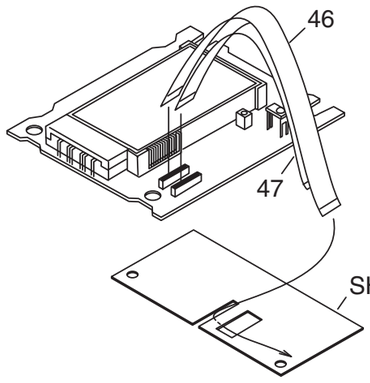

BZG-9
B x2
CABI,BOTTOM

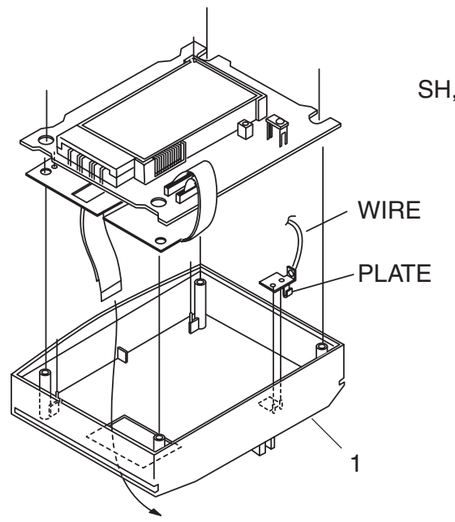

H x4

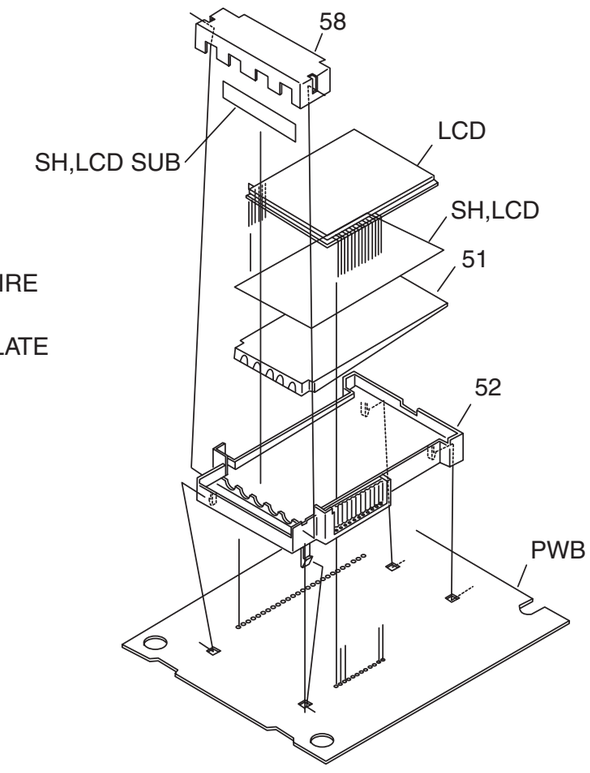

aiwa
37

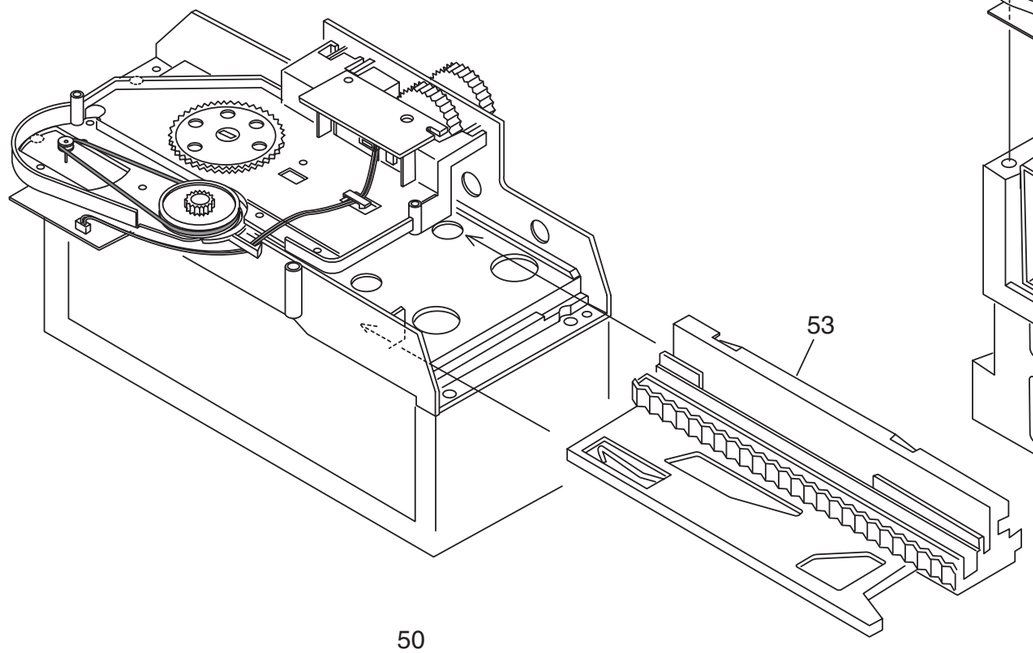

38
I x4
aiwa


40
39
41


46
47
SH,PROTECT FFC


WIRE
PLATE
1


58
SH,LCD SUB
LCD
SH,LCD
51
52
PWB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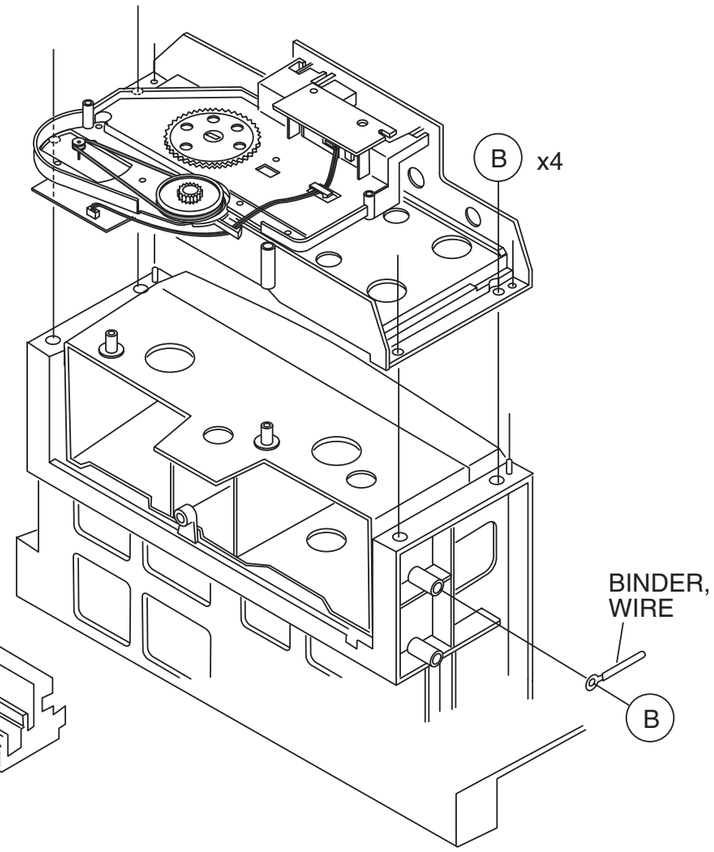
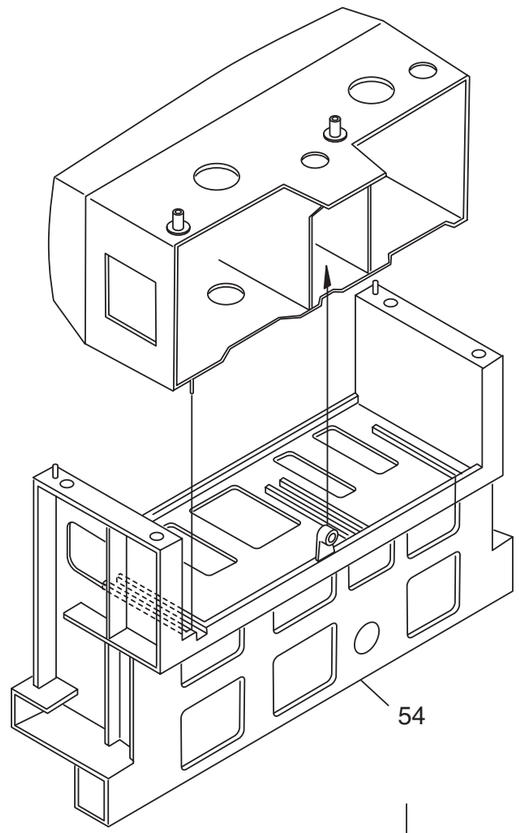

B x4
BINDER, WIRE
B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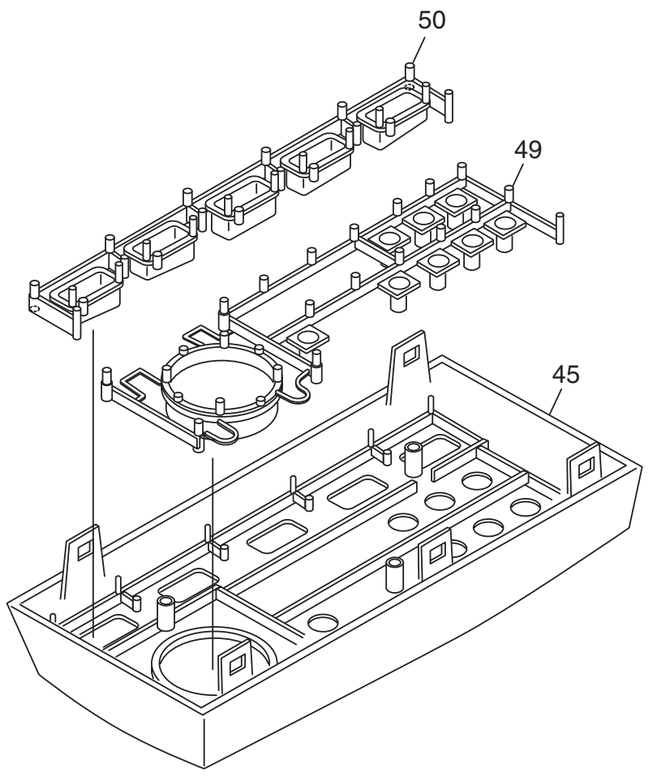
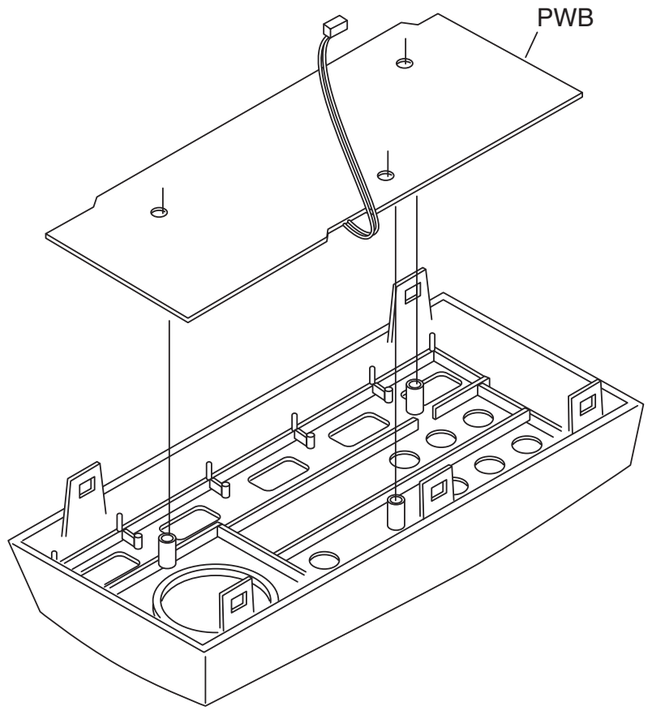
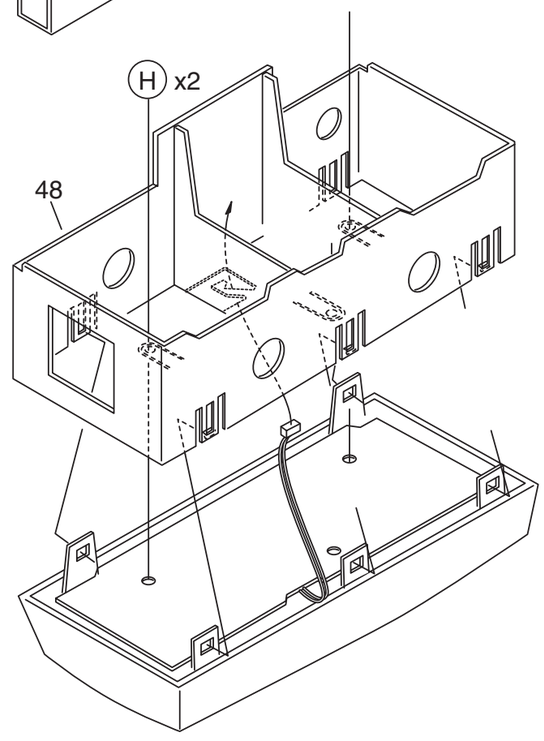
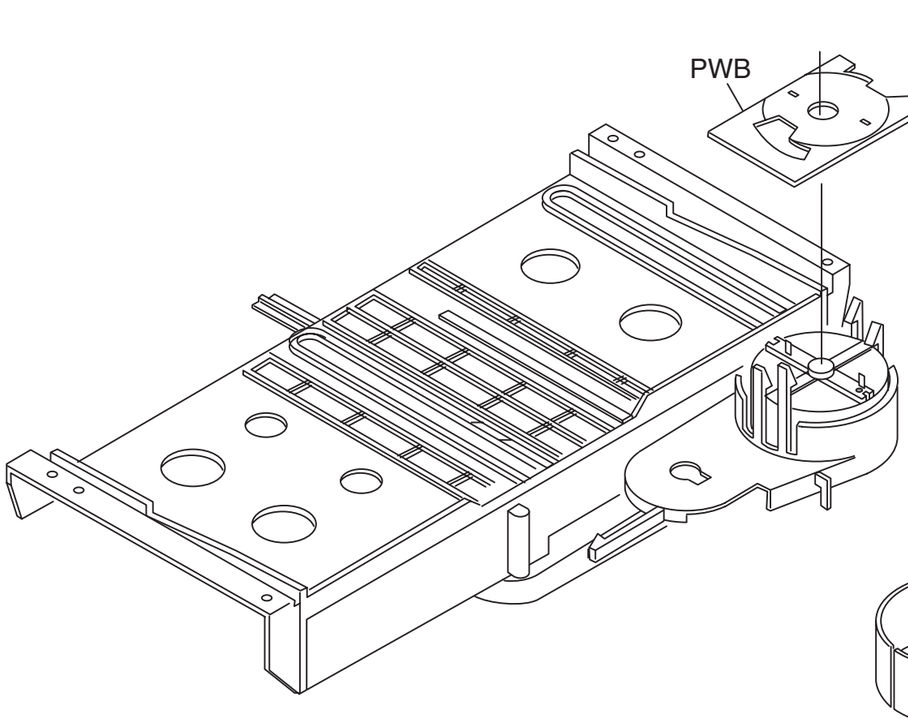
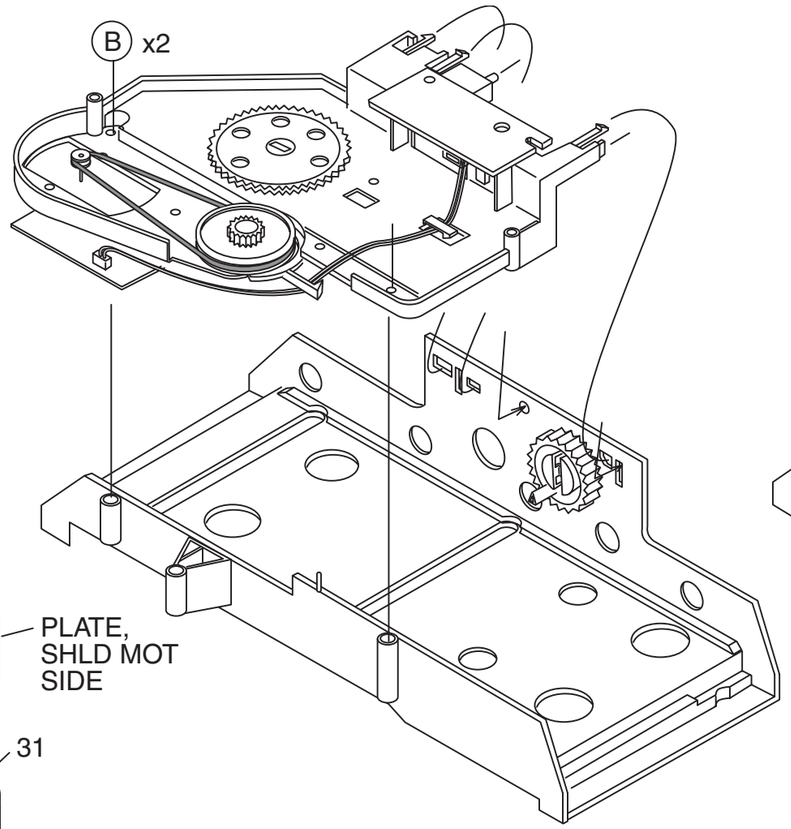
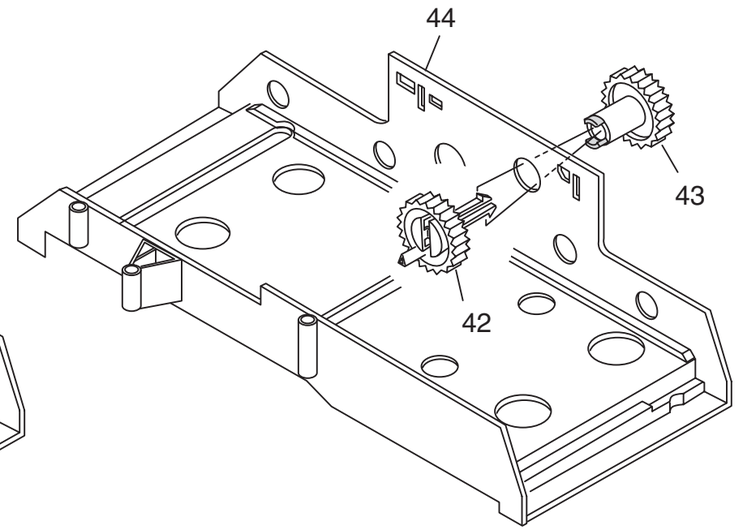

50
49
45

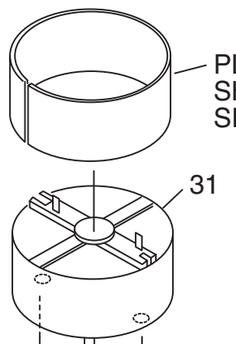

PWB


H x2
48


PWB

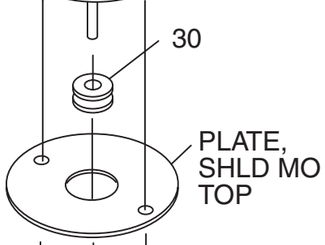

B x2

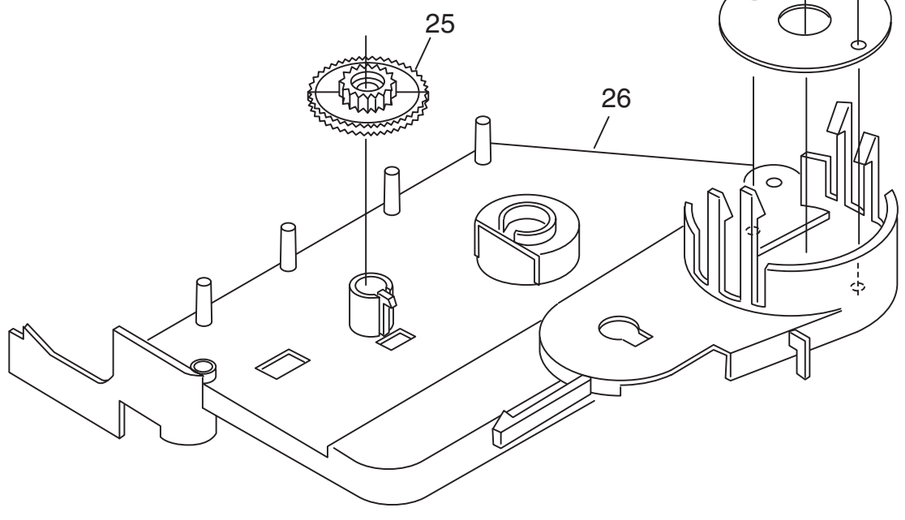

44
43
42


PLATE,
SHLD MOT
SIDE

31

30


PLATE,
SHLD MO
TOP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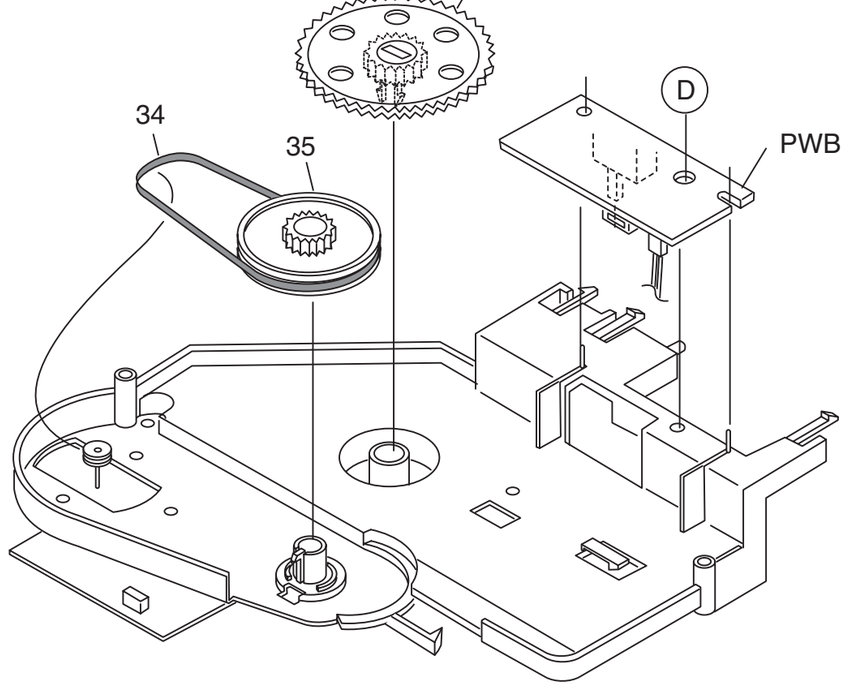
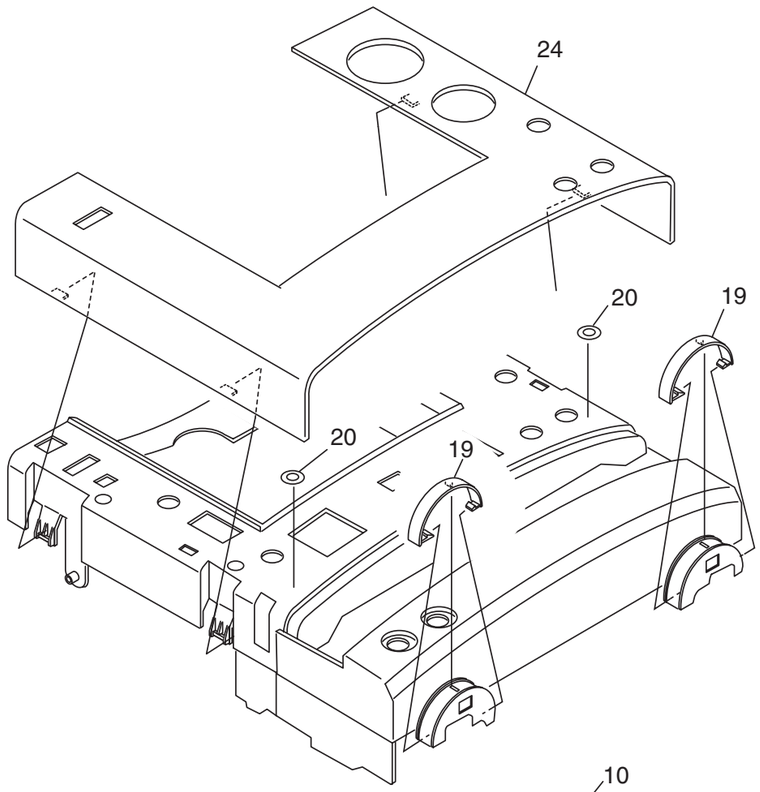

34
35
D
PWB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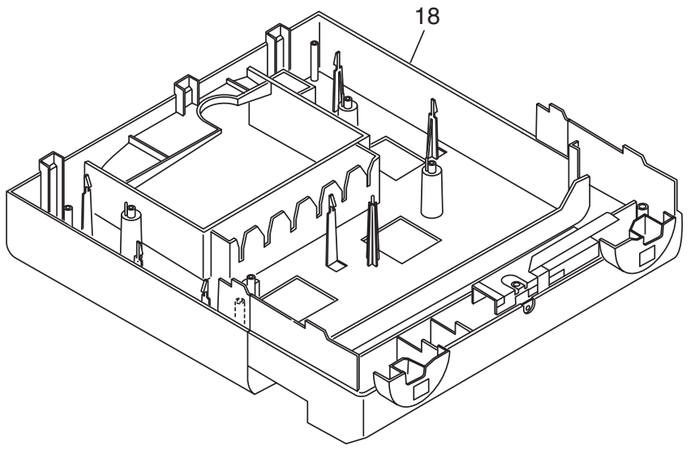
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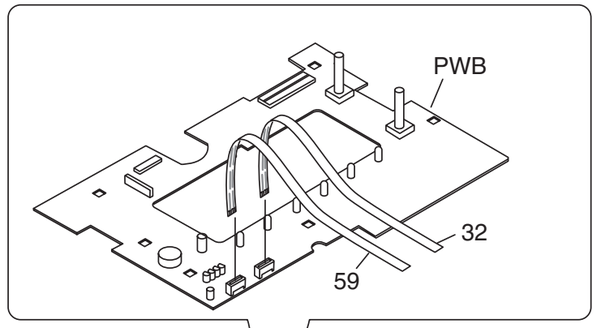
PWB
32
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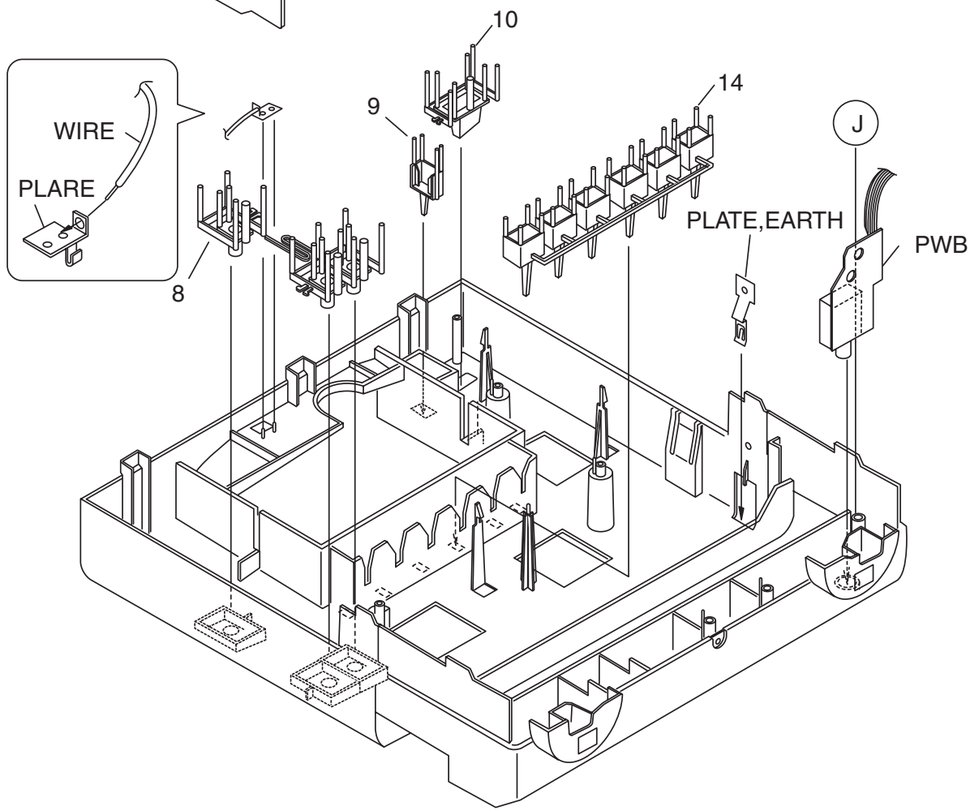
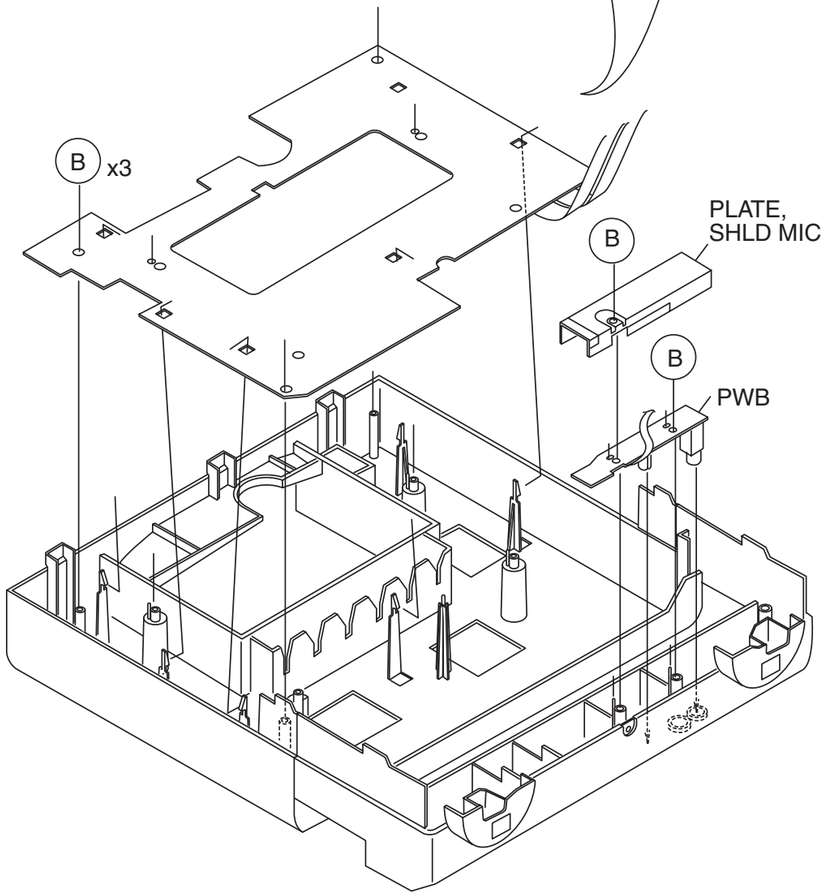

10
WIRE
PLARE
9
14
J
PLATE,EARTH
PWB
8


B x3
PLATE,
SHLD MIC
B
B
PWB

MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-DJW-046-010		BOX,WINDOW HB
2	8B-DJW-003-010		CABI,STEEL
3	8B-DJW-018-010		KNOB,RTRY VOL
4	8B-DJW-019-010		KNOB,RTRY FUN
5	8B-DJW-039-110		PANEL,REAR DVD
6	8B-DJW-005-010		PANEL,TRAY AL DVD
7	8B-DJW-004-010		PANEL,TRAY
8	8B-DJW-012-010		KEY,OPEN/CLOSE
9	8B-DJW-015-010		REFLECTOR,STANDBY
10	8B-DJW-011-010		KEY,POWER
11	87-A91-711-010		FAN,3110GL-B4W-B34-H04 -400MM
12	8B-NF8-227-010		HLDR,FAN
13	8B-DJW-051-010		PANEL,REAR KS<K[S]>
13	8B-DJW-052-010		PANEL,REAR EZS<EZ[S]>
14	8B-DJW-016-010		REFLECTOR,FUN
15	8A-DJT-014-110		HLDR,CD REAR
16	8B-NCJ-207-110		HLDR,PWB AMP
17	8B-NCJ-202-010		HLDR,TR AMP
18	8B-DJW-040-010		CABI,FR H
19	8B-DJW-017-010		RING,FOOT
20	87-067-058-010		W-F,3.2-8-0.5 W/ADH
21	87-064-185-010		HLDR,WIRE PVC 0.5
22	8A-NF7-225-010		HLDR,PWB PT 85S
⚠ 23	8B-DJW-624-010		PT,BDJ-29EZ
24	8B-DJW-041-010		PANEL,AMP AL DVD EZ
25	8B-DJW-255-010		GEAR,RACK
26	8B-DJW-253-010		HLDR,GEAR
⚠ 27	87-A90-457-010		F-BEAD,15-25-15 E2515JRT
⚠ 28	87-A80-092-010		AC CORD ASSY,E BLK SUN FAI<EZ[S]>
⚠ 28	87-A80-157-010		AC CORD ASSY,E BLK CC<K[S]>
29	87-085-185-010		BUSHING,AC CORD(E) CM-22B
30	84-ZG1-267-010		PULLEY,LOAD MO 8
31	87-045-305-010		MOT,RF-500TB
32	88-905-281-110		FF-CABLE, 5P 1.25 280MM
33	88-908-381-110		FF-CABLE,8P 1.25 380MM
34	84-ZG1-209-010		BELT,SQ1.8-117.7
35	84-ZG1-271-010		PULLEY,RELAY 8
36	8B-NF8-214-010		GEAR,RELAY
37	8B-DJW-261-010		SPR-E,LIFT JP
38	8B-DJW-006-010		WINDOW,DISPLAY
39	8B-DJW-037-010		LENS,SENSOR
40	8B-DJW-020-010		KEY,TOUCH
41	8B-DJW-007-110		PANEL,WINDOW
42	8B-DJW-257-010		GEAR,JOINT-B
43	8B-DJW-256-010		GEAR,JOINT-A
44	8B-DJW-252-010		HLDR,CAM
45	8B-DJW-036-010		PANEL,OPERATION RDS
46	8B-DJW-632-010		FF-CABLE,19P 1.0 220MM
47	8B-DJW-631-010		FF-CABLE,21P 1.0 180MM
48	8B-DJW-251-010		HLDR,P-SW
49	8B-DJW-024-010		KEY,OPERATION RDS
50	8B-DJW-013-010		KEY,PLAY
51	8B-DJW-022-010		REFLECTOR,LCD
52	8B-DJW-201-010		GUIDE,LCD
53	8B-DJW-254-110		PLATE,MAIN CAM
54	8B-DJW-250-010		HLDR,MECHA MOVE
55	88-909-511-110		FF-CABLE,9P 1.25 510MM
56	88-911-511-110		FF-CABLE,11P 1.25 510MM
57	88-908-301-110		FF-CABLE,8P 1.25 300MM
58	8B-DJW-206-010		COVER, LED
59	88-905-361-110		FF-CABLE, 5P 1.25 360MM
A	87-067-641-010		UTT2+3-8 W/O SLOT BLK
B	87-067-703-010		BVT2+3-10 W/O SL0T
C	87-067-716-010		BVTT+3-6 BLK
D	87-067-660-010		BVT2+3-8 W/O SL0T BLK
E	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
F	87-078-200-010		S-SCREW,ITC+4-8 R
G	87-721-097-410		QT2+3-12 W/O SLOT
H	87-067-581-010		BVT2+3-15 W/O SL0T
I	8B-DJW-204-010		S-SCREW,WINDOW
J	88-AR1-217-010		S-SCREW,BFT2+3-8
K	87-591-095-410		QIT+3-8
L	87-591-094-410		QIT+3-6
M	87-078-180-010		BVT2+3.5-12 SWCH/ZN BLK

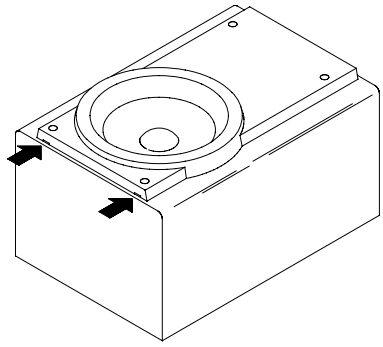
COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

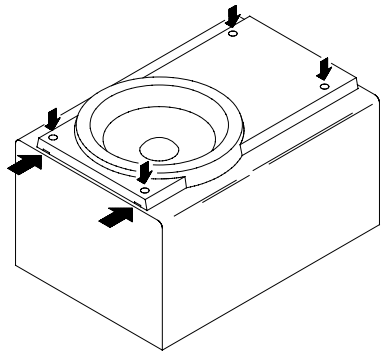
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



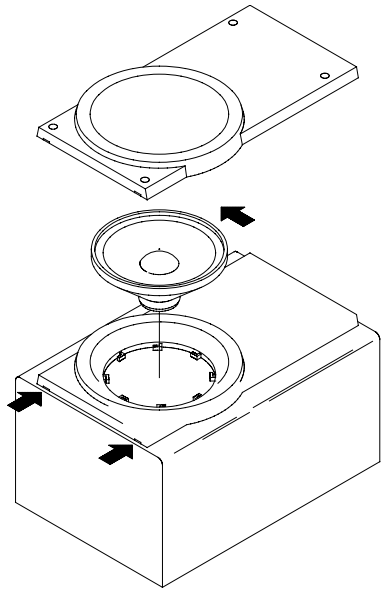
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

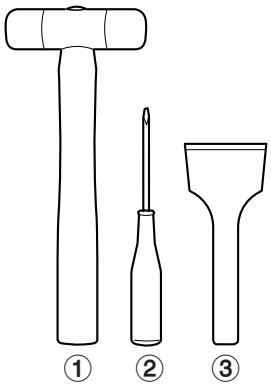


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

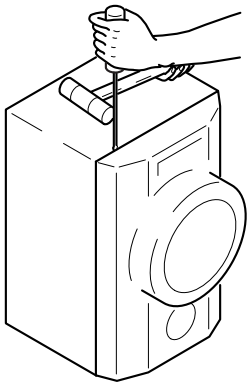


Fig-1

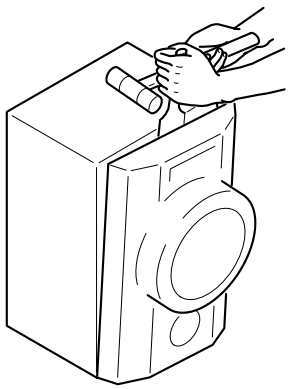


Fig-2

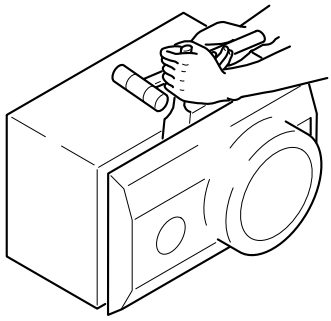


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST (SX – GDV335) <YSC>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-DSW-004-010		GRILLE,FRAME ASSY DS
2	8B-NSX-004-010		TERMINAL
3	8B-NSX-014-010		FOOT,RUBBER
4	8B-NSX-612-010		CORD,SP 30M
5	8B-DSW-001-010		PLATE,NAME C
6	8B-DSW-002-010		PLATE,NAME R
7	8B-DSW-003-010		PLATE,NAME F
8	8B-NSX-604-010		SPKR,80 C
9	8B-NSX-603-010		SPKR,80 R
10	8B-DSW-602-010		SPKR,80 F

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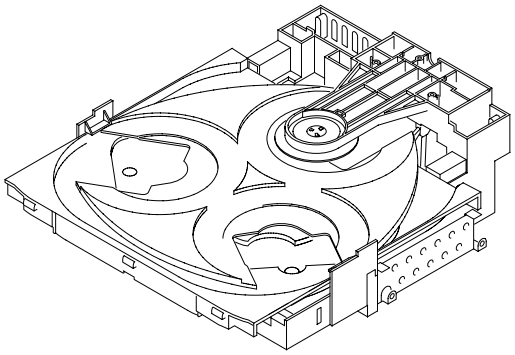
English



SERVICE MANUAL

DVD MECHANISM

BASIC DVD MECHANISM : DV32F2

TYPE
ZWEM
ZWE

aiwa

S/M Code No. 09-018-357-9N2

DATA

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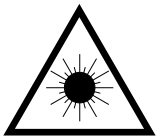
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

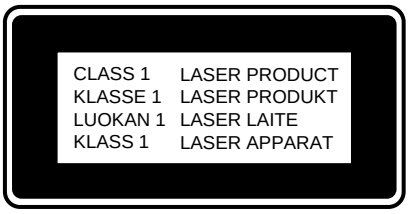
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

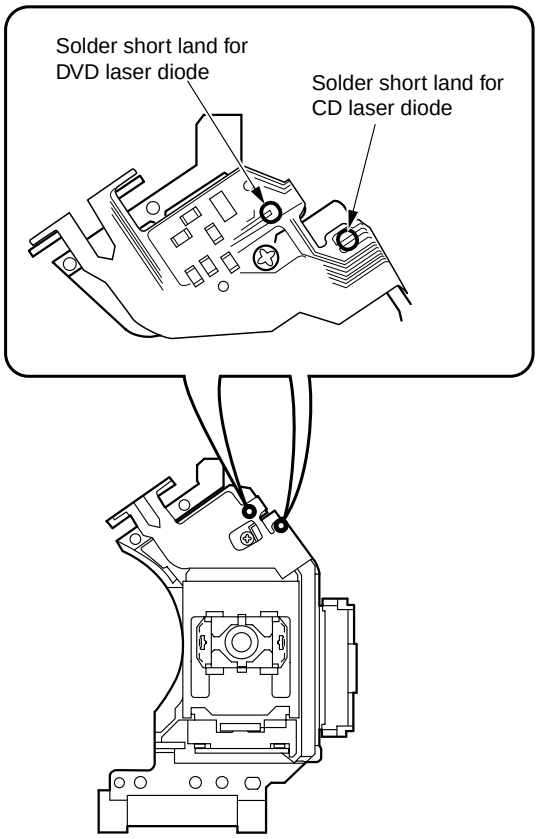


Precaution to replace Optical block (SF-HD3AV2)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

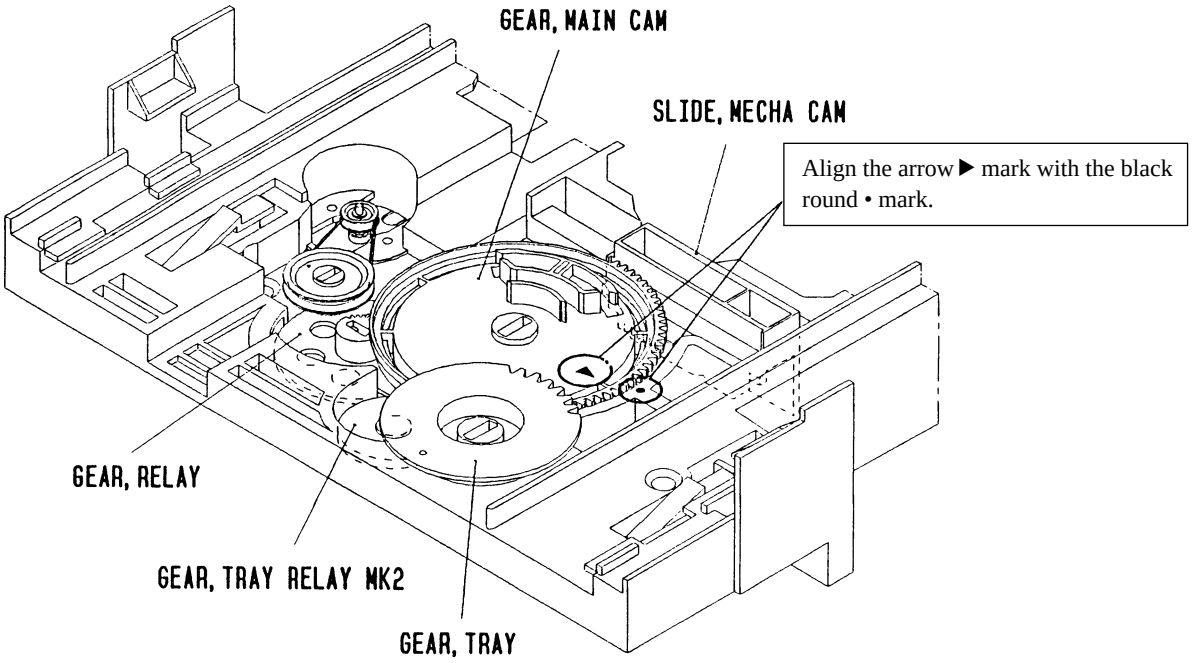
SF-HD3AV2 (DV32F2: M8-AZK-J92-070) MODEL



How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST-1/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-998-040		C-IC,HD74LV14AT
	87-A21-997-080		C-IC,HD74LV2G08A
	8A-ZA7-804-010		C-IC,LC87F72C8A
	87-A21-999-080		C-IC,HD74LV1G04A
	87-A21-760-040		C-IC,NJM4580V
	8B-ZA6-602-030		C-IC,LC78661W
	8A-ZA7-802-040		C-IC,LC324265AT-25DV
	87-A21-309-040		C-IC,HD74LV74A
	8A-ZA7-800-010		C-IC,LA9702W-MPB
	87-017-915-080		IC,BU4094BCF
	87-A21-986-040		C-IC,HD74LV4066AT
	87-A21-304-010		IC,LB1649
	8A-ZA7-801-040		C-IC,LA6556L-TE-L
	87-017-825-010		IC,GP1F32T
	87-A21-991-030		C-IC,HD6412320VF25
	87-A21-763-040		C-IC,PST3430
	8B-ZA6-606-030		C-IC,M29W800AB(BZA)2
	87-A21-990-080		C-IC,HD74LV1G08A
	87-A21-941-030		C-IC,UT62L1024LC-70LL
	8Z-AV2-630-010		C-IC,L64021D
	87-A21-617-010		C-IC,HY57V161610DTC-8
	87-A22-042-040		C-IC,PLL1701
	87-A21-993-040		C-IC,PCM1742 KE
	87-A21-613-040		C-IC,SN74LV04APW
	87-A21-362-040		C-IC,NJM2100M(TE2)
	87-A20-905-040		C-IC,BA033FP
	87-A22-041-030		C-IC,ADV7170K
	87-A21-883-040		C-IC,CS8415A
	87-A21-884-040		C-IC,CS4228A
	87-A21-755-040		C-IC,SN74LV541APW
	87-A21-987-040		C-IC,BA025
	87-A21-885-040		C-IC,CS49326
TRANSISTOR			
	87-A30-582-080		TR,CDA1585BC
	87-A30-083-080		TR,CSD1489B
	87-A30-076-080		C-TR,2SC3052F
	87-A30-613-010		TR,2SD2374
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-234-080		TR,CSC4115BC
	87-A30-435-040		C-TR,DTC144EK T146
	89-211-323-080		C-TR,2SB1132R
	87-A30-447-040		C-TR,DTA114EKA
	87-A30-075-080		C-TR,2SA1235F
	87-A30-516-040		C-FET,3LN01C-TB
	87-A30-432-040		C-TR,DTC124XKA
	87-A30-282-040		C-TR,DTA114TKA
	87-A30-287-040		C-TR,DTC114TKA
	89-333-265-040		C-TR,2SC3326A
DIODE			
	87-A40-614-040		C-DIODE,SFPB-72
	87-A40-749-080		ZENER,UZ5.6BSB
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-739-080		ZENER,UZ2.7BSA
	87-A40-530-080		DIODE,RB721Q-40
	87-A40-745-080		ZENER,UZ4.7BSA
	87-A40-747-080		ZENER,UZ5.1BSB
	87-017-779-080		C-DIODE,1SS355
	87-A40-765-080		ZENER,UZ11BSB
	87-A40-741-080		ZENER,UZ3.6BSA

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
DVD C.B			
C100	87-012-274-080		CHIP CAP,U 1000P-50B
C101	87-016-427-080		C-CAP,E 47-6.3 5.5N
C102	87-A10-260-080		C-CAP,U 0.1-16 K B
C103	87-A10-260-080		C-CAP,U 0.1-16 K B
C104	87-012-180-080		C-CAP,U 22P-50 CH
C105	87-012-180-080		C-CAP,U 22P-50 CH
C106	87-A10-260-080		C-CAP,U 0.1-16 K B
C107	87-016-428-080		C-CAP,E 47-16 5.5N
C110	87-A10-260-080		C-CAP,U 0.1-16 K B
C111	87-012-195-080		C-CAP,U 100P-50CH
C112	87-A10-260-080		C-CAP,U 0.1-16 K B
C114	87-016-430-080		C-CAP,E 100-6.3 5.5N
C115	87-A10-260-080		C-CAP,U 0.1-16 K B
C118	87-012-172-080		CAPACITOR CHIP U 10P CH
C119	87-012-172-080		CAPACITOR CHIP U 10P CH
C120	87-012-172-080		CAPACITOR CHIP U 10P CH
C121	87-012-172-080		CAPACITOR CHIP U 10P CH
C122	87-012-172-080		CAPACITOR CHIP U 10P CH
C123	87-012-172-080		CAPACITOR CHIP U 10P CH
C124	87-012-172-080		CAPACITOR CHIP U 10P CH
C125	87-012-172-080		CAPACITOR CHIP U 10P CH
C126	87-012-286-080		CAP, U 0.01-25
C127	87-012-286-080		CAP, U 0.01-25
C128	87-012-286-080		CAP, U 0.01-25
C129	87-012-286-080		CAP, U 0.01-25
C130	87-012-286-080		CAP, U 0.01-25
C201	87-A10-260-080		C-CAP,U 0.1-16 K B
C202	87-016-429-080		C-CAP,E 100-4 5.5N
C203	87-A10-260-080		C-CAP,U 0.1-16 K B
C205	87-A10-260-080		C-CAP,U 0.1-16 K B
C206	87-016-430-080		C-CAP,E 100-6.3 5.5N
C208	87-016-430-080		C-CAP,E 100-6.3 5.5N
C209	87-016-427-080		C-CAP,E 47-6.3 5.5N
C210	87-012-286-080		CAP, U 0.01-25
C211	87-A10-260-080		C-CAP,U 0.1-16 K B
C217	87-A10-260-080		C-CAP,U 0.1-16 K B
C218	87-A10-260-080		C-CAP,U 0.1-16 K B
C219	87-A12-344-080		C-CAP,E 100-6.3 VC PX
C220	87-012-274-080		CHIP CAP,U 1000P-50B
C221	87-012-274-080		CHIP CAP,U 1000P-50B
C222	87-A10-260-080		C-CAP,U 0.1-16 K B
C224	87-012-277-080		C-CAP, U 1800P-50 B
C225	87-012-274-080		CHIP CAP,U 1000P-50B
C226	87-012-274-080		CHIP CAP,U 1000P-50B
C227	87-012-274-080		CHIP CAP,U 1000P-50B
C228	87-012-274-080		CHIP CAP,U 1000P-50B
C229	87-012-274-080		CHIP CAP,U 1000P-50B
C231	87-012-274-080		CHIP CAP,U 1000P-50B
C232	87-012-274-080		CHIP CAP,U 1000P-50B
C233	87-A10-260-080		C-CAP,U 0.1-16 K B
C234	87-A10-260-080		C-CAP,U 0.1-16 K B
C235	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C236	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C237	87-A10-260-080		C-CAP,U 0.1-16 K B
C238	87-A10-504-080		C-CAP,U 0.047-16 K B
C239	87-A10-504-080		C-CAP,U 0.047-16 K B
C240	87-A10-260-080		C-CAP,U 0.1-16 K B
C241	87-A10-260-080		C-CAP,U 0.1-16 K B
C242	87-012-286-080		CAP, U 0.01-25
C243	87-012-197-080		C-CAP,U 150P-50 CH
C244	87-A10-260-080		C-CAP,U 0.1-16 K B
C245	87-A10-260-080		C-CAP,U 0.1-16 K B
C246	87-A10-260-080		C-CAP,U 0.1-16 K B
C247	87-A10-260-080		C-CAP,U 0.1-16 K B
C248	87-A10-260-080		C-CAP,U 0.1-16 K B

ELECTRICAL MAIN PARTS LIST-2/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C249	87-A10-260-080		C-CAP,U 0.1-16 K B
C250	87-A10-260-080		C-CAP,U 0.1-16 K B
C251	87-A10-260-080		C-CAP,U 0.1-16 K B
C252	87-A10-260-080		C-CAP,U 0.1-16 K B
C253	87-A10-260-080		C-CAP,U 0.1-16 K B
C254	87-A10-260-080		C-CAP,U 0.1-16 K B
C255	87-A10-260-080		C-CAP,U 0.1-16 K B
C256	87-012-282-080		CAP, U 4700P-50
C259	87-016-426-080		C-CAP,E 47-4 5.5N
C260	87-012-286-080		CAP, U 0.01-25
C261	87-012-286-080		CAP, U 0.01-25
C300	87-016-427-080		C-CAP,E 47-6.3 5.5N
C301	87-016-426-080		C-CAP,E 47-4 5.5N
C302	87-A10-260-080		C-CAP,U 0.1-16 K B
C303	87-A10-260-080		C-CAP,U 0.1-16 K B
C304	87-012-274-080		CHIP CAP,U 1000P-50B
C305	87-016-427-080		C-CAP,E 47-6.3 5.5N
C307	87-012-274-080		CHIP CAP,U 1000P-50B
C308	87-016-427-080		C-CAP,E 47-6.3 5.5N
C311	87-A10-260-080		C-CAP,U 0.1-16 K B
C312	87-012-271-080		CAP, U 560P-50
C313	87-012-271-080		CAP, U 560P-50
C314	87-012-271-080		CAP, U 560P-50
C315	87-012-271-080		CAP, U 560P-50
C316	87-012-271-080		CAP, U 560P-50
C317	87-012-282-080		CAP, U 4700P-50
C318	87-012-271-080		CAP, U 560P-50
C319	87-012-196-080		C-CAP,U 120P-50 CH
C320	87-010-779-080		C-CAP,E 100-6.3
C321	87-A10-260-080		C-CAP,U 0.1-16 K B
C323	87-A10-260-080		C-CAP,U 0.1-16 K B
C324	87-012-197-080		C-CAP,U 150P-50 CH
C330	87-012-184-080		C-CAP,U 33P-50 CH
C336	87-012-197-080		C-CAP,U 150P-50 CH
C337	87-012-188-080		C-CAP,U 47P-50 CH
C338	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C339	87-012-195-080		C-CAP,U 100P-50CH
C340	87-016-427-080		C-CAP,E 47-6.3 5.5N
C341	87-012-193-080		C-CAP,U 82P-50 CH
C342	87-012-180-080		C-CAP,U 22P-50 CH
C343	87-012-270-080		CAP, U 470P-50
C344	87-012-195-080		C-CAP,U 100P-50CH
C345	87-012-197-080		C-CAP,U 150P-50 CH
C348	87-A10-260-080		C-CAP,U 0.1-16 K B
C349	87-010-843-080		C-CAP,E 1-50 M 5.5L MV
C350	87-A10-260-080		C-CAP,U 0.1-16 K B
C351	87-A10-260-080		C-CAP,U 0.1-16 K B
C352	87-016-427-080		C-CAP,E 47-6.3 5.5N
C353	87-016-426-080		C-CAP,E 47-4 5.5N
C354	87-012-164-080		C-CAP,U 2P-50 CK
C355	87-010-779-080		C-CAP,E 100-6.3
C356	87-012-176-080		CAP 15P
C357	87-A10-260-080		C-CAP,U 0.1-16 K B
C358	87-012-274-080		CHIP CAP,U 1000P-50B
C359	87-012-274-080		CHIP CAP,U 1000P-50B
C400	87-A10-260-080		C-CAP,U 0.1-16 K B
C401	87-016-426-080		C-CAP,E 47-4 5.5N
C402	87-A10-260-080		C-CAP,U 0.1-16 K B
C403	87-A10-260-080		C-CAP,U 0.1-16 K B
C404	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C405	87-A10-260-080		C-CAP,U 0.1-16 K B
C406	87-A10-260-080		C-CAP,U 0.1-16 K B
C407	87-012-199-080		CAP 220P
C408	87-012-199-080		CAP 220P
C409	87-012-199-080		CAP 220P
C410	87-012-199-080		CAP 220P
C411	87-016-430-080		C-CAP,E 100-6.3 5.5N
C413	87-A10-260-080		C-CAP,U 0.1-16 K B
C415	87-010-464-080		CAP ELECT 22-4
C416	87-A10-260-080		C-CAP,U 0.1-16 K B
C418	87-A10-260-080		C-CAP,U 0.1-16 K B
C419	87-A10-260-080		C-CAP,U 0.1-16 K B
C420	87-A10-260-080		C-CAP,U 0.1-16 K B
C421	87-010-848-080		C-CAP,10-16V
C422	87-A10-260-080		C-CAP,U 0.1-16 K B
C423	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C424	87-016-427-080		C-CAP,E 47-6.3 5.5N
C425	87-A10-260-080		C-CAP,U 0.1-16 K B
C426	87-A10-260-080		C-CAP,U 0.1-16 K B
C427	87-016-430-080		C-CAP,E 100-6.3 5.5N
C602	87-012-286-080		CAP, U 0.01-25
C603	87-012-286-080		CAP, U 0.01-25
C604	87-012-286-080		CAP, U 0.01-25
C609	87-012-286-080		CAP, U 0.01-25
C611	87-012-286-080		CAP, U 0.01-25
C613	87-012-286-080		CAP, U 0.01-25
C614	87-012-172-080		CAPACITOR CHIP U 10P CH
C617	87-012-172-080		CAPACITOR CHIP U 10P CH
C619	87-012-286-080		CAP, U 0.01-25
C620	87-012-286-080		CAP, U 0.01-25
C623	87-012-286-080		CAP, U 0.01-25
C624	87-012-286-080		CAP, U 0.01-25
C625	87-016-426-080		C-CAP,E 47-4 5.5N
C626	87-012-286-080		CAP, U 0.01-25
C627	87-012-286-080		CAP, U 0.01-25
C630	87-016-429-080		C-CAP,E 100-4 5.5N
C632	87-016-429-080		C-CAP,E 100-4 5.5N
C634	87-012-286-080		CAP, U 0.01-25
C701	87-012-286-080		CAP, U 0.01-25
C702	87-016-429-080		C-CAP,E 100-4 5.5N
C703	87-016-429-080		C-CAP,E 100-4 5.5N
C704	87-012-286-080		CAP, U 0.01-25
C705	87-012-286-080		CAP, U 0.01-25
C706	87-012-286-080		CAP, U 0.01-25
C707	87-012-278-080		C-CAP,U 2200P-50 B
C708	87-012-286-080		CAP, U 0.01-25
C709	87-012-286-080		CAP, U 0.01-25
C710	87-016-426-080		C-CAP,E 47-4 5.5N
C711	87-012-286-080		CAP, U 0.01-25
C712	87-012-286-080		CAP, U 0.01-25
C713	87-012-286-080		CAP, U 0.01-25
C714	87-012-286-080		CAP, U 0.01-25
C715	87-012-286-080		CAP, U 0.01-25
C716	87-012-286-080		CAP, U 0.01-25
C717	87-012-286-080		CAP, U 0.01-25
C718	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-286-080		CAP, U 0.01-25
C721	87-012-286-080		CAP, U 0.01-25
C722	87-012-286-080		CAP, U 0.01-25
C723	87-012-286-080		CAP, U 0.01-25
C724	87-012-286-080		CAP, U 0.01-25
C725	87-012-171-080		C-CAP,U 9P-50 CH
C727	87-012-286-080		CAP, U 0.01-25
C728	87-012-286-080		CAP, U 0.01-25
C729	87-012-286-080		CAP, U 0.01-25
C731	87-016-426-080		C-CAP,E 47-4 5.5N
C733	87-012-196-080		C-CAP,U 120P-50 CH
C734	87-012-171-080		C-CAP,U 9P-50 CH
C735	87-012-286-080		CAP, U 0.01-25
C736	87-010-848-080		C-CAP,10-16V
C737	87-010-662-080		C-CAP,E 22-6.3
C738	87-012-196-080		C-CAP,U 120P-50 CH
C740	87-A10-260-080		C-CAP,U 0.1-16 K B
C741	87-A10-260-080		C-CAP,U 0.1-16 K B
C742	87-010-662-080		C-CAP,E 22-6.3
C744	87-A10-260-080		C-CAP,U 0.1-16 K B
C745	87-A10-260-080		C-CAP,U 0.1-16 K B
C755	87-010-662-080		C-CAP,E 22-6.3
C758	87-012-286-080		CAP, U 0.01-25

ELECTRICAL MAIN PARTS LIST-3/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C759	87-010-848-080		C-CAP,10-16V
C760	87-010-848-080		C-CAP,10-16V
C767	87-012-286-080		CAP, U 0.01-25
C801	87-A10-260-080		C-CAP,U 0.1-16 K B
C802	87-A10-260-080		C-CAP,U 0.1-16 K B
C803	87-A11-049-080		C-CAP,U 1-6.3 K B
C824	87-016-429-080		C-CAP,E 100-4 5.5N
C825	87-A10-260-080		C-CAP,U 0.1-16 K B
C826	87-012-286-080		CAP, U 0.01-25
C827	87-A10-260-080		C-CAP,U 0.1-16 K B
C828	87-A10-260-080		C-CAP,U 0.1-16 K B
C829	87-A10-260-080		C-CAP,U 0.1-16 K B
C830	87-A10-260-080		C-CAP,U 0.1-16 K B
C831	87-A10-260-080		C-CAP,U 0.1-16 K B
C832	87-A10-260-080		C-CAP,U 0.1-16 K B
C833	87-012-286-080		CAP, U 0.01-25
C834	87-A10-260-080		C-CAP,U 0.1-16 K B
C900	87-A11-969-080		C-CAP,U 0.082U-16 K B
C901	87-012-278-080		C-CAP,U 2200P-50 B
C902	87-A10-484-080		C-CAP,S 1.0U-10 K B
C903	87-012-278-080		C-CAP,U 2200P-50 B
C909	87-012-286-080		CAP, U 0.01-25
C921	87-010-843-080		C-CAP,E 1-50 M 5.5L MV
C922	87-A10-484-080		C-CAP,S 1.0U-10 K B
C923	87-A10-260-080		C-CAP,U 0.1-16 K B
C925	87-012-278-080		C-CAP,U 2200P-50 B
C926	87-012-286-080		CAP, U 0.01-25
C927	87-A10-260-080		C-CAP,U 0.1-16 K B
C928	87-012-270-080		CAP, U 470P-50
C929	87-010-844-080		C-CAP,E 2.2-50 M MV
C930	87-A10-260-080		C-CAP,U 0.1-16 K B
C932	87-012-278-080		C-CAP,U 2200P-50 B
C933	87-012-278-080		C-CAP,U 2200P-50 B
C940	87-A10-484-080		C-CAP,S 1.0U-10 K B
C941	87-016-429-080		C-CAP,E 100-4 5.5N
C943	87-A10-260-080		C-CAP,U 0.1-16 K B
C944	87-A10-484-080		C-CAP,S 1.0U-10 K B
C945	87-012-278-080		C-CAP,U 2200P-50 B
C946	87-A10-484-080		C-CAP,S 1.0U-10 K B
C947	87-A10-484-080		C-CAP,S 1.0U-10 K B
C948	87-016-426-080		C-CAP,E 47-4 5.5N
C949	87-A10-260-080		C-CAP,U 0.1-16 K B
C954	87-012-278-080		C-CAP,U 2200P-50 B
C955	87-A10-484-080		C-CAP,S 1.0U-10 K B
C957	87-A10-260-080		C-CAP,U 0.1-16 K B
C958	87-016-426-080		C-CAP,E 47-4 5.5N
CN100	87-A61-476-080		C-CONN,10P V WHT BM10B-SRSS-TB
CN300	87-A61-332-080		C-CONN,33P V WHT FH12
CN401	87-A61-632-080		C-CONN,10P H WHT PH-SM3-TB
CN402	87-A61-337-080		C-CONN,9P V WHT PH-SM3-TB
CN601	87-A61-228-080		C-CONN,6P H 6232T
CN701	87-A60-557-080		C-CONN,2P H PH-SM3
CN801	87-A61-635-080		C-CONN,7P H BLK 6232T
CN901	87-A60-960-080		C-CONN,16P H 6232T
CP200	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP201	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP203	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
FB201	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB203	87-A50-667-080		C-COIL, 1.0UH K FLC32
FB401	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB402	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB403	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB406	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB407	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB702	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB731	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB733	87-A91-875-080		C-F-BEAD, BK1608LL680
FB737	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB739	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB802	87-A50-667-080		C-COIL, 1.0UH K FLC32
FB900	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB901	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB902	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB903	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB904	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB905	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB906	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
L100	87-A50-667-080		C-COIL, 1.0UH K FLC32
L201	87-A50-395-080		C-COIL,100UHD73C-636CY
L203	87-A50-668-080		C-COIL, 2.2UH K FLC32
L300	87-A50-395-080		C-COIL,100UHD73C-636CY
L301	87-005-811-080		C-COIL,10UH J FLC32
L302	87-005-811-080		C-COIL,10UH J FLC32
L400	87-A50-667-080		C-COIL, 1.0UH K FLC32
L600	87-A50-667-080		C-COIL, 1.0UH K FLC32
L601	87-A50-667-080		C-COIL, 1.0UH K FLC32
L602	87-A50-667-080		C-COIL, 1.0UH K FLC32
L700	87-A50-667-080		C-COIL, 1.0UH K FLC32
L701	87-A50-667-080		C-COIL, 1.0UH K FLC32
L702	87-A50-668-080		C-COIL, 2.2UH K FLC32
L705	87-005-815-080		C-COIL, 22UH J FLC32
PT101	8B-ZA6-605-080		C-PLATE, SD00433
R615	87-A91-480-080		C-F-BEAD, BK1608 HS121
R619	87-A91-480-080		C-F-BEAD, BK1608 HS121
R624	87-A91-480-080		C-F-BEAD, BK1608 HS121
R626	87-A91-480-080		C-F-BEAD, BK1608 HS121
R685	87-A91-480-080		C-F-BEAD, BK1608 HS121
R687	87-A91-480-080		C-F-BEAD, BK1608 HS121
R717	87-A91-480-080		C-F-BEAD, BK1608 HS121
R718	87-A91-480-080		C-F-BEAD, BK1608 HS121
R719	87-A91-480-080		C-F-BEAD, BK1608 HS121
R720	87-A91-480-080		C-F-BEAD, BK1608 HS121
R721	87-A91-480-080		C-F-BEAD, BK1608 HS121
R722	87-A91-480-080		C-F-BEAD, BK1608 HS121
R723	87-A91-480-080		C-F-BEAD, BK1608 HS121
R724	87-A91-480-080		C-F-BEAD, BK1608 HS121
R768	87-A91-878-080		C-F-BEAD, BK1608HS241
R951	87-A91-480-080		C-F-BEAD, BK1608 HS121
R952	87-A91-480-080		C-F-BEAD, BK1608 HS121
R953	87-A91-480-080		C-F-BEAD, BK1608 HS121
R954	87-A91-480-080		C-F-BEAD, BK1608 HS121
R955	87-A91-480-080		C-F-BEAD, BK1608 HS121
R956	87-A91-480-080		C-F-BEAD, BK1608 HS121
R957	87-A91-480-080		C-F-BEAD, BK1608 HS121
R958	87-A91-480-080		C-F-BEAD, BK1608 HS121
R959	87-A91-480-080		C-F-BEAD, BK1608 HS121
R973	87-A91-480-080		C-F-BEAD, BK1608 HS121
R974	87-A91-480-080		C-F-BEAD, BK1608 HS121
R975	87-A91-480-080		C-F-BEAD, BK1608 HS121
X100	87-A70-284-080		C-VIB,XTAL 10MHZ HC-49/U03C
X200	87-A70-283-080		C-VIB,XTAL 16.9344MHZ HC-49/U0
X600	87-A70-194-080		C-VIB,XTAL 20MHZ HC-49/U03C
X700	87-A70-195-080		C-VIB,XTAL 27MHZ HC-49/U03C

INTERFACE C.B

C1	87-010-831-080		C-CAP,U,0.1-16F
C2	87-010-805-080		CAP, S 1-16
C3	87-A12-072-080		CAP,E 100-25 SMG
C4	87-012-195-080		C-CAP,U 100P-50CH
C5	87-A12-072-080		CAP,E 100-25 SMG
C6	87-010-805-080		CAP, S 1-16
C8	87-012-286-080		CAP, U 0.01-25
C9	87-A12-062-080		CAP,E 100-10 SMG
C10	87-010-831-080		C-CAP,U,0.1-16F
C12	87-010-831-080		C-CAP,U,0.1-16F
C13	87-010-831-080		C-CAP,U,0.1-16F
C31	87-012-286-080		CAP, U 0.01-25
C32	87-A12-062-080		CAP,E 100-10 SMG
C33	87-010-831-080		C-CAP,U,0.1-16F
C34	87-010-831-080		C-CAP,U,0.1-16F

ELECTRICAL MAIN PARTS LIST-4/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C41	87-012-286-080		CAP, U 0.01-25
C42	87-A12-062-080		CAP,E 100-10 SMG
C43	87-010-831-080		C-CAP,U,0.1-16F
C44	87-010-831-080		C-CAP,U,0.1-16F
C51	87-012-286-080		CAP, U 0.01-25
C52	87-016-459-080		CAP,E 470-10 SMG
C53	87-010-831-080		C-CAP,U,0.1-16F
C54	87-010-831-080		C-CAP,U,0.1-16F
C110	87-A12-061-080		CAP,E 47-10 SMG
C111	87-010-831-080		C-CAP,U,0.1-16F
C112	87-010-831-080		C-CAP,U,0.1-16F
C119	87-A10-047-080		C-CAP,U 1-10 Z F
C120	87-A10-047-080		C-CAP,U 1-10 Z F
C121	87-012-196-080		C-CAP,U 120P-50 CH
C122	87-012-196-080		C-CAP,U 120P-50 CH
C123	87-012-199-080		CAP 220P
C124	87-012-199-080		CAP 220P
C125	87-012-199-080		CAP 220P
C126	87-012-199-080		CAP 220P
C127	87-012-199-080		CAP 220P
C128	87-012-199-080		CAP 220P
C129	87-012-199-080		CAP 220P
C130	87-012-199-080		CAP 220P
C133	87-010-831-080		C-CAP,U,0.1-16F
C134	87-010-831-080		C-CAP,U,0.1-16F
C139	87-A12-091-080		CAP,E 10-50 SMG
C140	87-A12-091-080		CAP,E 10-50 SMG
C141	87-012-196-080		C-CAP,U 120P-50 CH
C142	87-012-196-080		C-CAP,U 120P-50 CH
C143	87-012-199-080		CAP 220P
C144	87-012-199-080		CAP 220P
C145	87-012-199-080		CAP 220P
C146	87-012-199-080		CAP 220P
C147	87-012-199-080		CAP 220P
C148	87-012-199-080		CAP 220P
C149	87-012-199-080		CAP 220P
C150	87-012-199-080		CAP 220P
C153	87-010-831-080		C-CAP,U,0.1-16F
C154	87-010-831-080		C-CAP,U,0.1-16F
C159	87-A10-047-080		C-CAP,U 1-10 Z F
C160	87-A12-091-080		CAP,E 10-50 SMG
C161	87-012-196-080		C-CAP,U 120P-50 CH
C162	87-012-286-080		CAP, U 0.01-25
C163	87-012-199-080		CAP 220P
C164	87-010-787-080		CAP, U 0.022-25
C165	87-012-199-080		CAP 220P
C166	87-010-787-080		CAP, U 0.022-25
C167	87-012-199-080		CAP 220P
C168	87-010-787-080		CAP, U 0.022-25
C169	87-012-199-080		CAP 220P
C170	87-010-787-080		CAP, U 0.022-25
C173	87-010-831-080		C-CAP,U,0.1-16F
C174	87-010-831-080		C-CAP,U,0.1-16F
C181	87-A10-047-080		C-CAP,U 1-10 Z F
C183	87-A10-295-080		CAP,M 0.01-50 J
C185	87-A10-300-080		CAP,M 0.027-50 J
C186	87-010-831-080		C-CAP,U,0.1-16F
C187	87-010-831-080		C-CAP,U,0.1-16F
C191	87-A10-918-080		CAP,E 100-16 SMG
C192	87-A12-063-080		CAP,E 220-10 SMG
C221	87-A10-047-080		C-CAP,U 1-10 Z F
C222	87-A10-047-080		C-CAP,U 1-10 Z F
C241	87-A12-091-080		CAP,E 10-50 SMG
C242	87-A12-091-080		CAP,E 10-50 SMG
C261	87-A10-047-080		C-CAP,U 1-10 Z F
C262	87-A12-091-080		CAP,E 10-50 SMG
C292	87-012-195-080		C-CAP,U 100P-50CH
C293	87-A10-918-080		CAP,E 100-16 SMG
C294	87-010-831-080		C-CAP,U,0.1-16F
C321	87-012-195-080		C-CAP,U 100P-50CH
C322	87-012-195-080		C-CAP,U 100P-50CH
C323	87-012-195-080		C-CAP,U 100P-50CH
C324	87-010-831-080		C-CAP,U,0.1-16F
C325	87-A12-090-080		CAP,E 4.7-50 SMG
C326	87-A12-091-080		CAP,E 10-50 SMG
C352	87-010-831-080		C-CAP,U,0.1-16F
C353	87-A10-918-080		CAP,E 100-16 SMG
C354	87-A12-090-080		CAP,E 4.7-50 SMG
C355	87-010-831-080		C-CAP,U,0.1-16F
C501	87-012-267-080		C-CAP,U 270P-50 B
C502	87-012-180-080		C-CAP,U 22P-50 CH
C503	87-012-336-080		CAP, CHIP SS 3300 SL
C504	87-012-267-080		C-CAP,U 270P-50 B
C505	87-012-180-080		C-CAP,U 22P-50 CH
C506	87-012-336-080		CAP, CHIP SS 3300 SL
C507	87-012-267-080		C-CAP,U 270P-50 B
C508	87-012-180-080		C-CAP,U 22P-50 CH
C509	87-012-336-080		CAP, CHIP SS 3300 SL
C510	87-012-337-080		C-CAP,U 56P-50 CH
C511	87-010-831-080		C-CAP,U,0.1-16F
C512	87-A12-091-080		CAP,E 10-50 SMG
C555	87-A12-058-080		CAP,E 470-6.3 SMG
C556	87-A12-058-080		CAP,E 470-6.3 SMG
C563	87-010-831-080		C-CAP,U,0.1-16F
CN101	87-A60-655-010		CONN,16P V GRY FMN-BTK
CN201	87-099-202-010		CONN,9P 6216 H
CN202	87-099-028-010		CONN,11P 6216 H
CN301	87-A61-351-010		CONN,6P V GRY FMN-BTK
CN302	87-099-201-010		CONN,8P 6216 H
CN351	87-A60-062-010		CONN,05P V 9604S-05C
CN501	87-A61-234-010		CONN,7P V GRY FMN-BTK
CNA1	8B-ZG9-605-010		CONN ASSY,10P PH #24
CNA501	8B-ZG9-606-010		CONN ASSY,2P PH S/P DIF
CNA551	8B-ZG9-607-010		CONN ASSY,2P PH COMPOSITE
FB1	87-A92-168-080		F-BEAD, W4BRH356010T
FB2	87-A92-168-080		F-BEAD, W4BRH356010T
FB31	87-A92-168-080		F-BEAD, W4BRH356010T
FB41	87-A92-168-080		F-BEAD, W4BRH356010T
FB51	87-A92-168-080		F-BEAD, W4BRH356010T
FB101	87-A92-168-080		F-BEAD, W4BRH356010T
FB501	87-A50-189-080		C-COIL,S BLM21B272S
J551	87-A61-284-010		JACK,PIN 1P YEL YKC-21 TYPE C
J552	87-A61-498-010		JACK,Y/C YKF51-5508
L1	87-A50-517-080		COIL,10UHK FLR88
L2	87-A50-706-010		COIL,68UH CDRI3W1010
L501	87-005-423-080		COIL,1.8UH K FLR50
L502	87-005-423-080		COIL,1.8UH K FLR50
L503	87-005-423-080		COIL,1.8UH K FLR50
M301	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
S551	87-A91-500-010		SW,MICRO MPU11470MLB0
S552	87-A91-500-010		SW,MICRO MPU11470MLB0
T551	8A-MVS-608-010		COIL,SORTER-BALUN
T552	8A-MVS-608-010		COIL,SORTER-BALUN
T553	8A-MVS-608-010		COIL,SORTER-BALUN

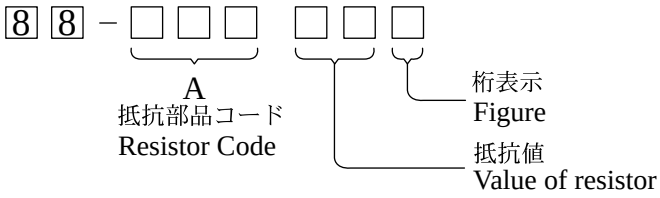
D-SENS C.B

C401	87-010-831-080		C-CAP,U,0.1-16F
CN401	86-NFZ-675-010		CONN,5P H 6216-11H
M401	87-045-364-010		MOTOR(BCH3B14)
PS401	87-026-573-010		IC,GP1S53V

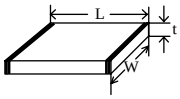
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

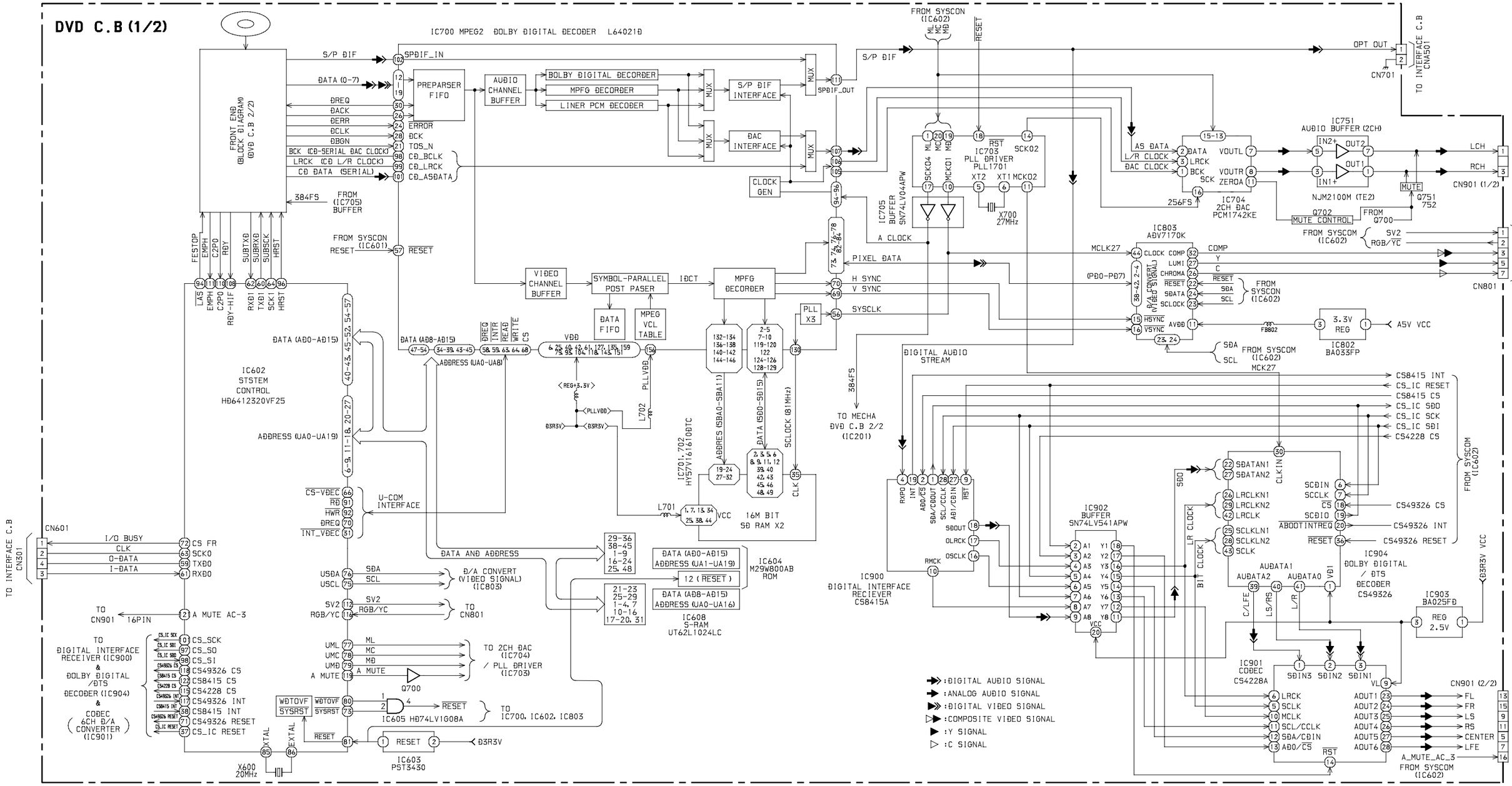
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



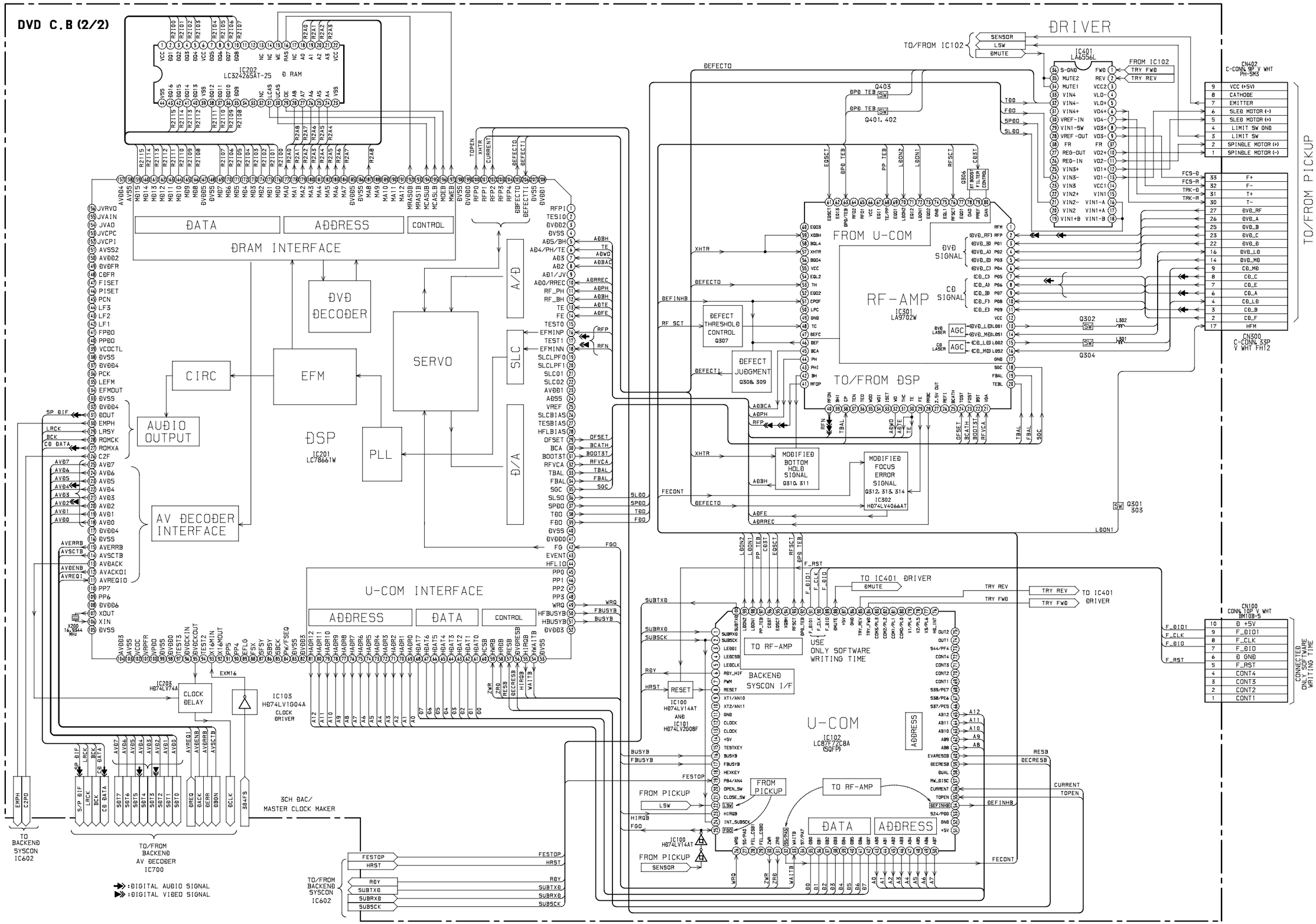
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード　：A Resistor Code：A
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

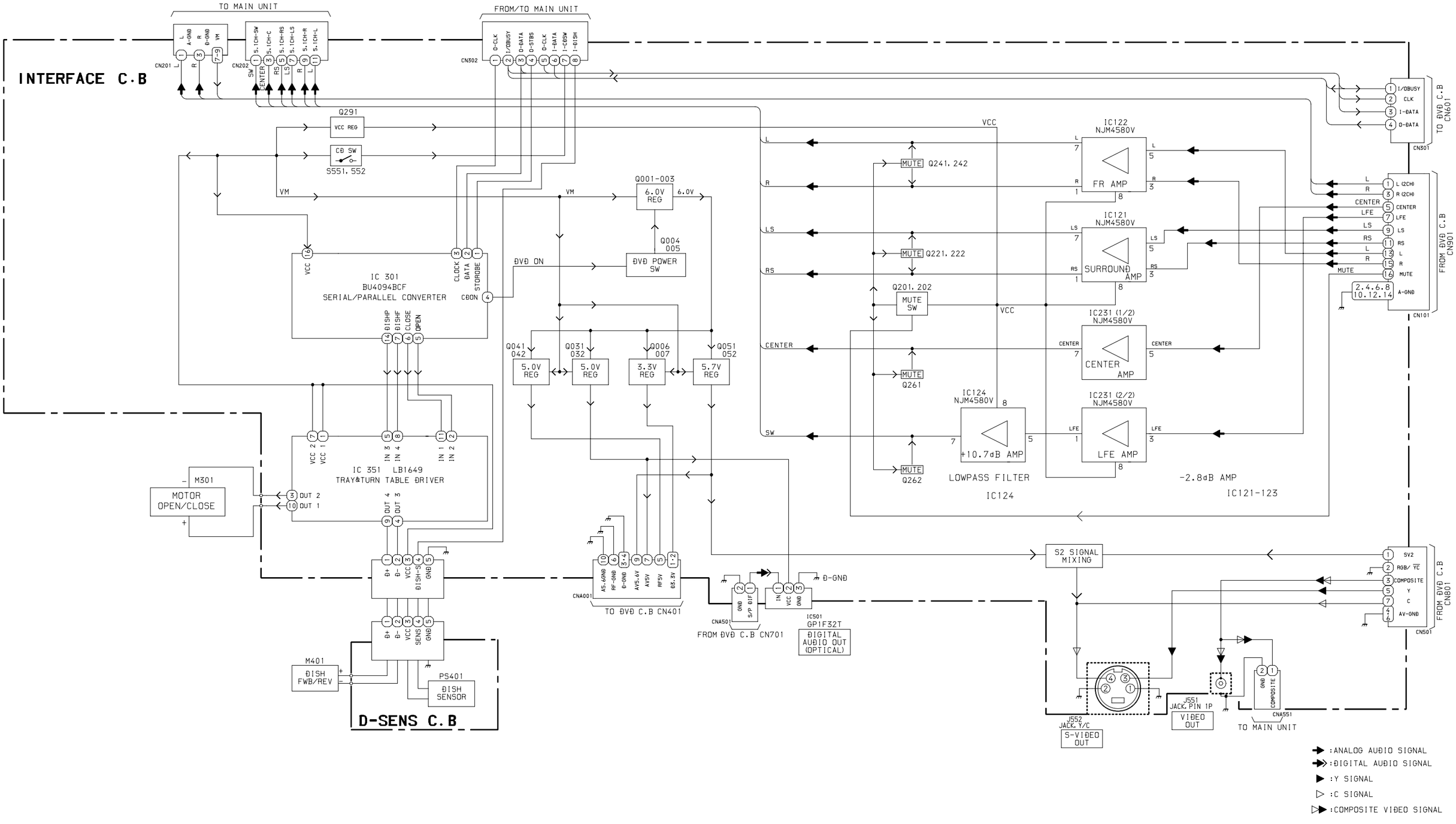
BLOCK DIAGRAM-1/3 (DVD-1/2 : DVD BLOCK)



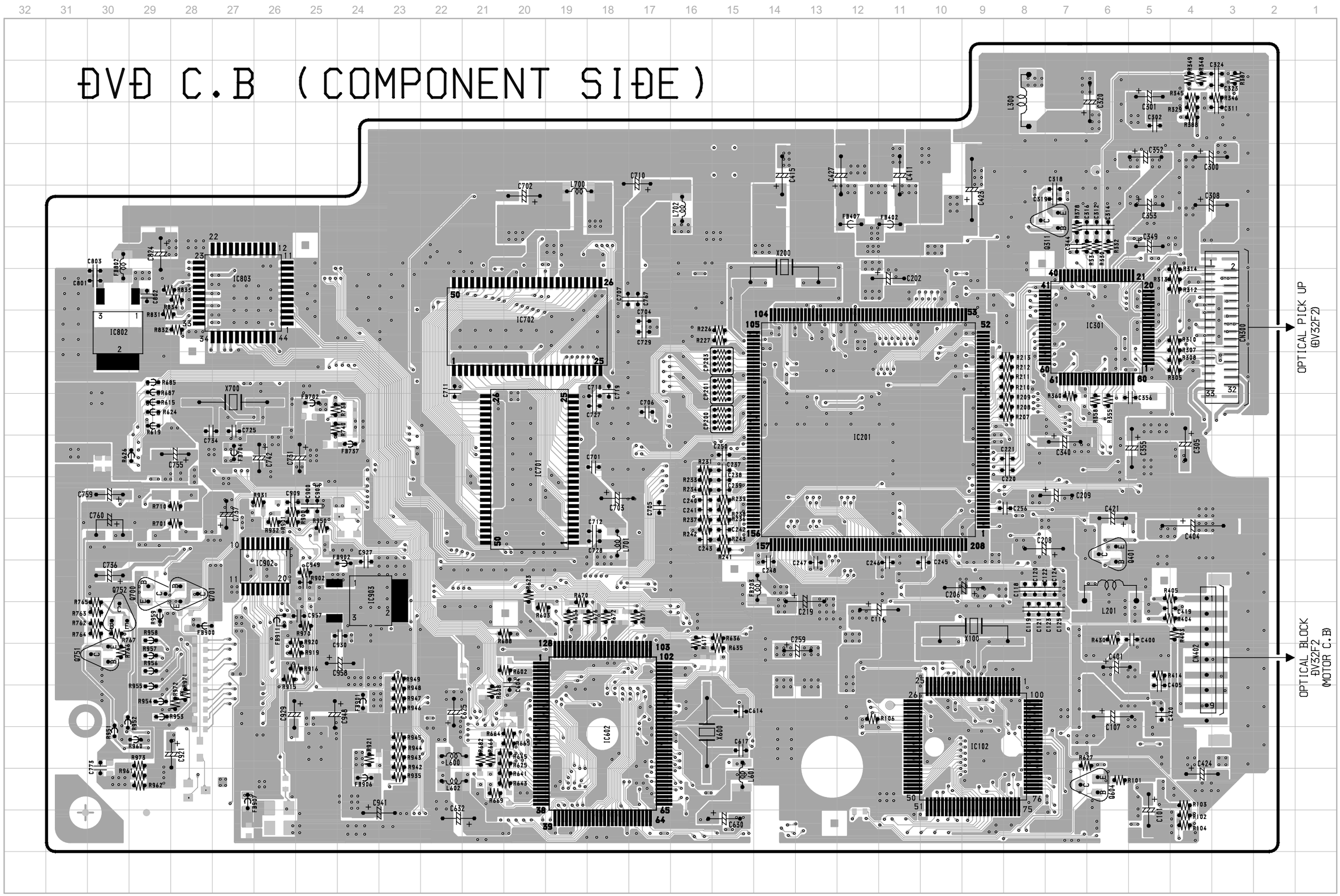
BLOCK DIAGRAM-2/3 (DVD-2/2 : FRONT END)



BLOCK DIAGRAM-3/3 (INTER FACE, D-SENS)

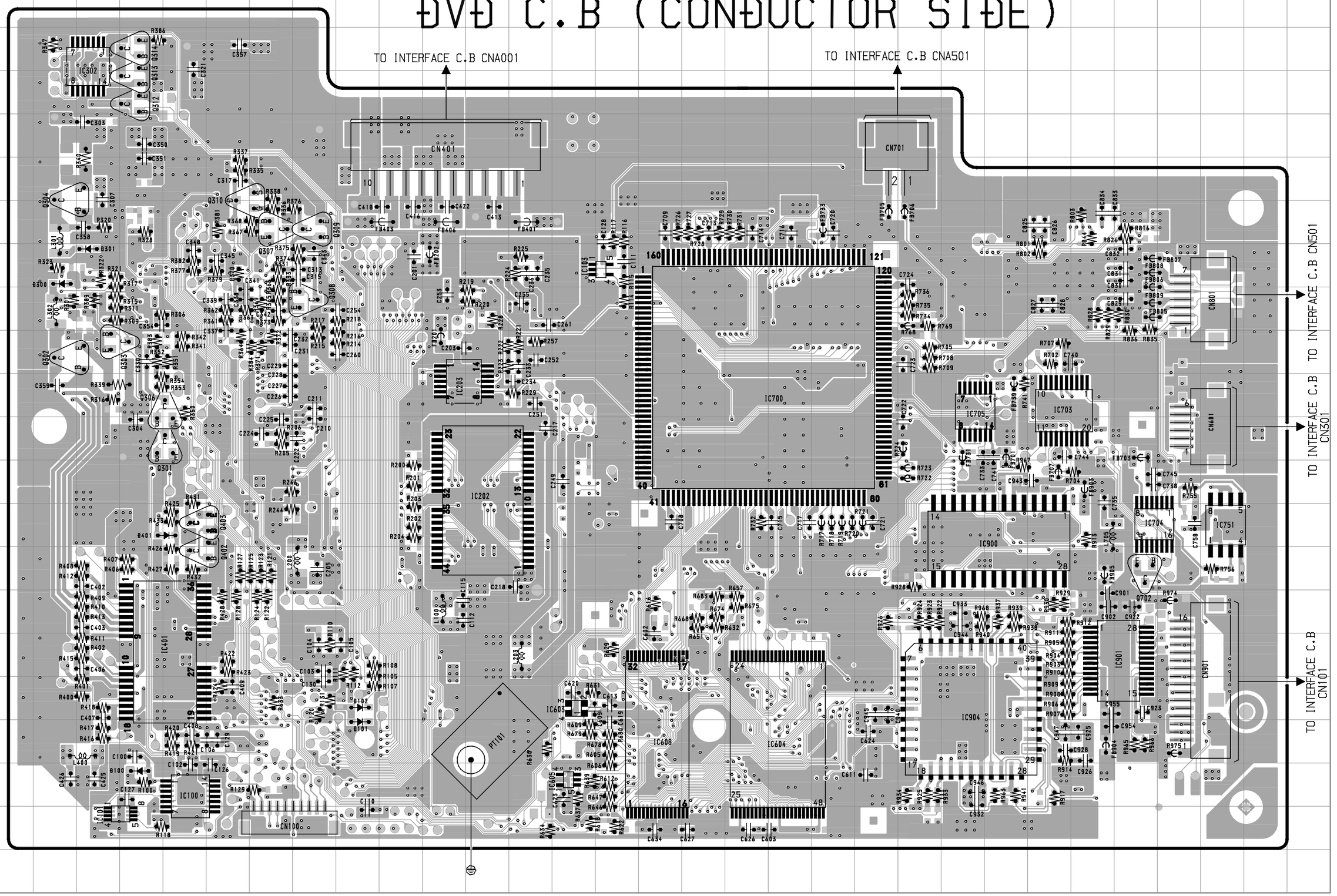


WIRING-1/3 (DVD : COMPONENT)

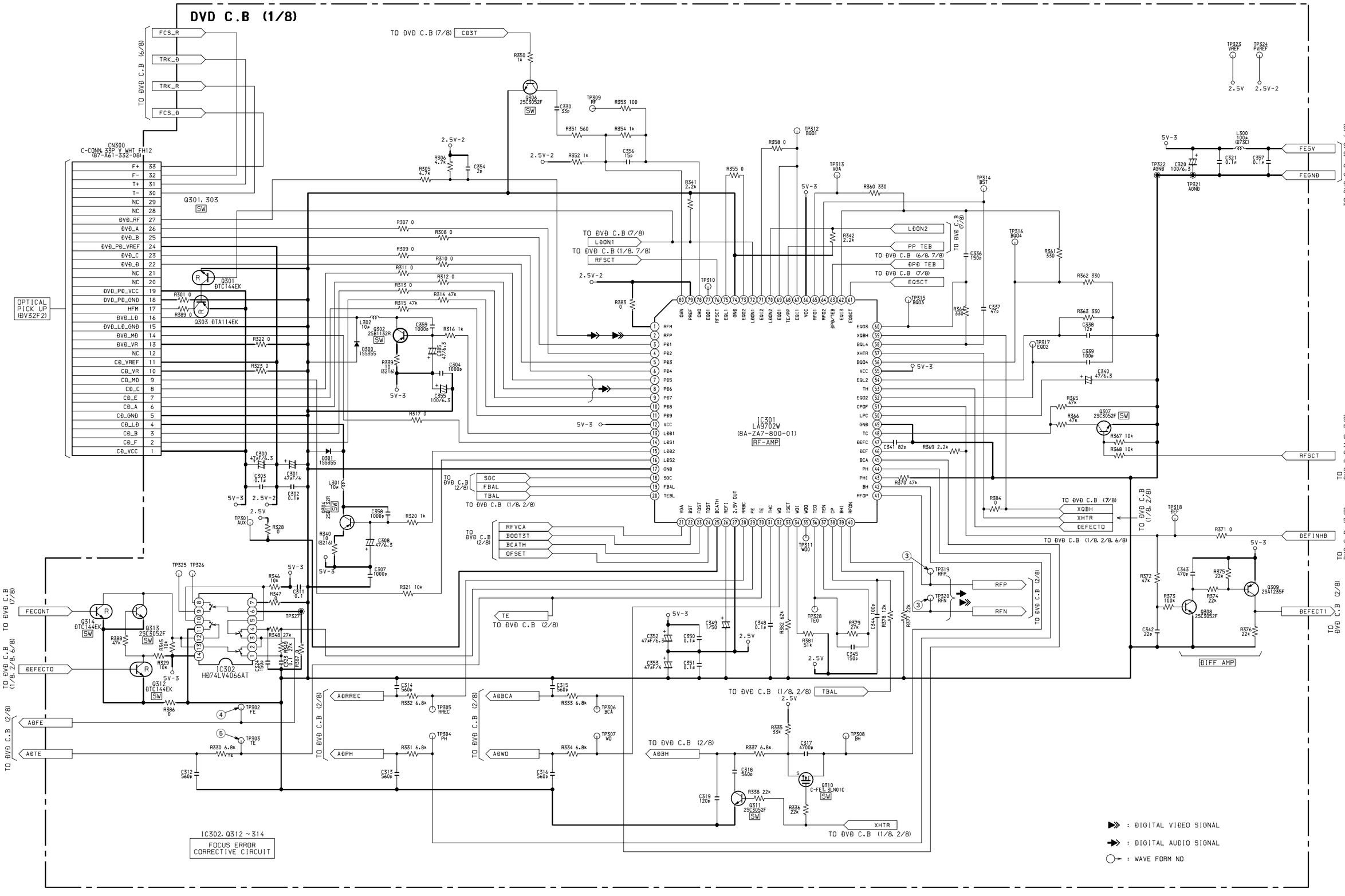


WIRING-2/3 (DVD : CONDUCTOR)

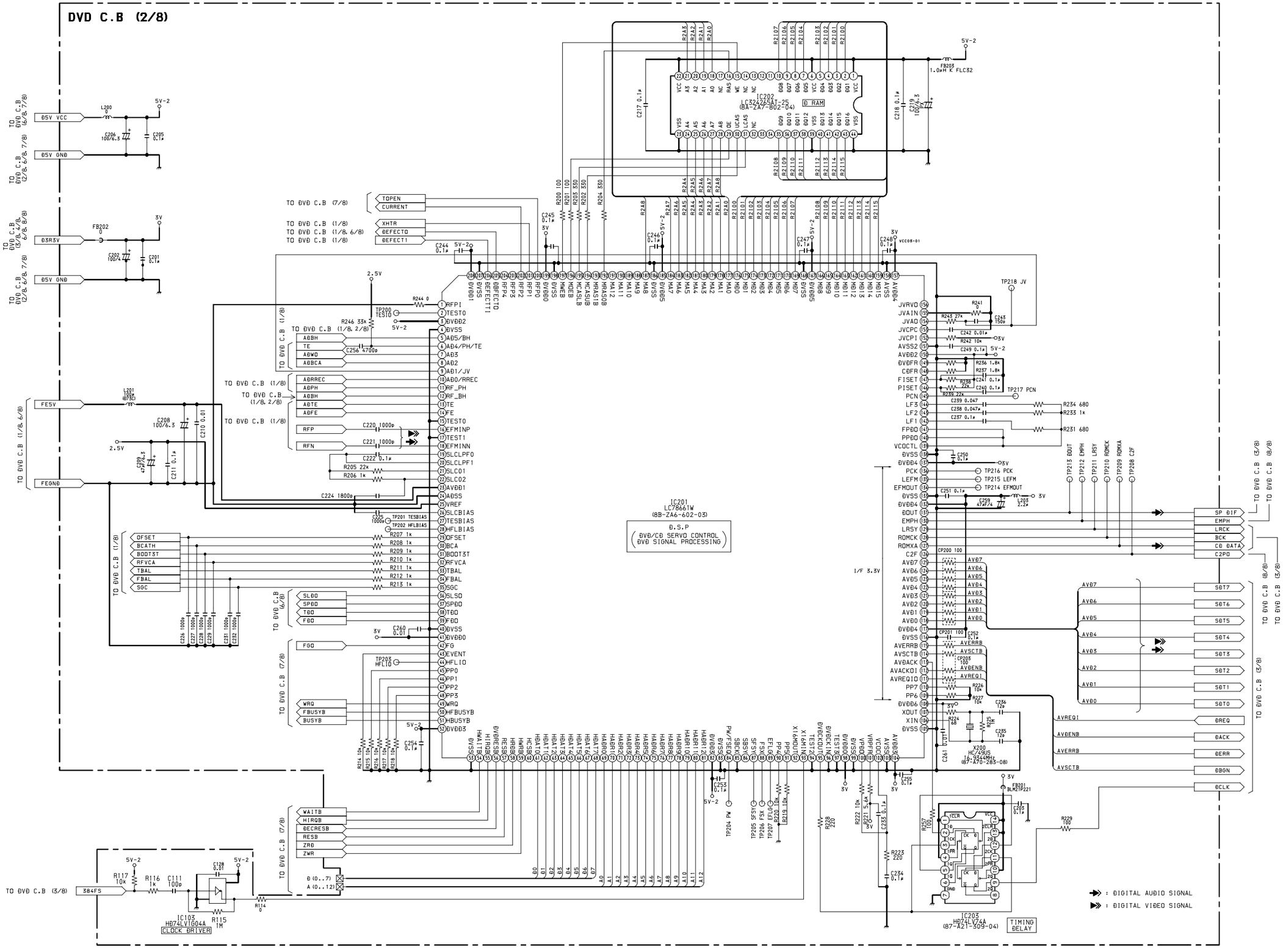
DVD C.B (CONDUCTOR SIDE)



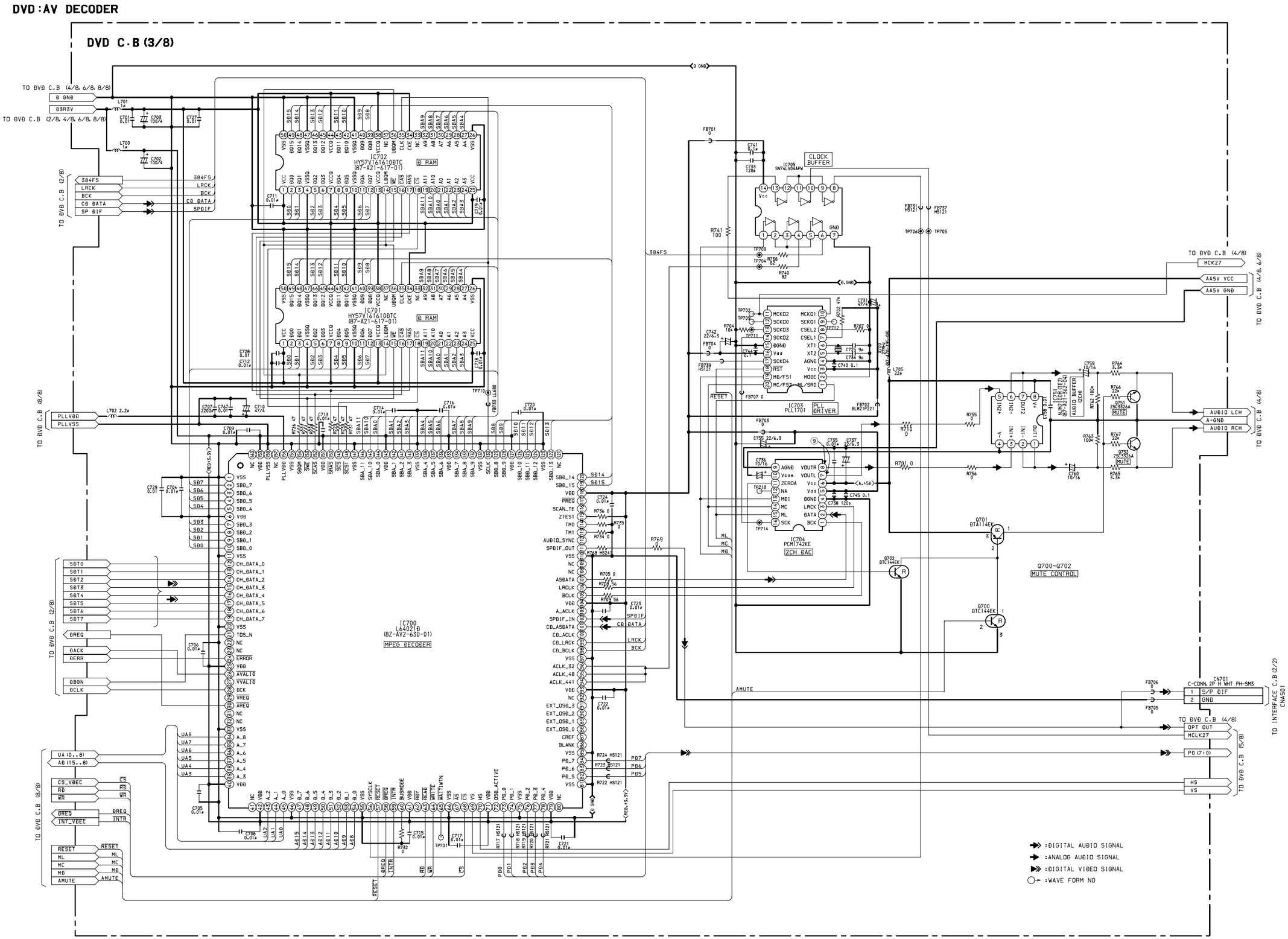
SCHEMATIC DIAGRAM-1/10 (DVD : RF AMP)

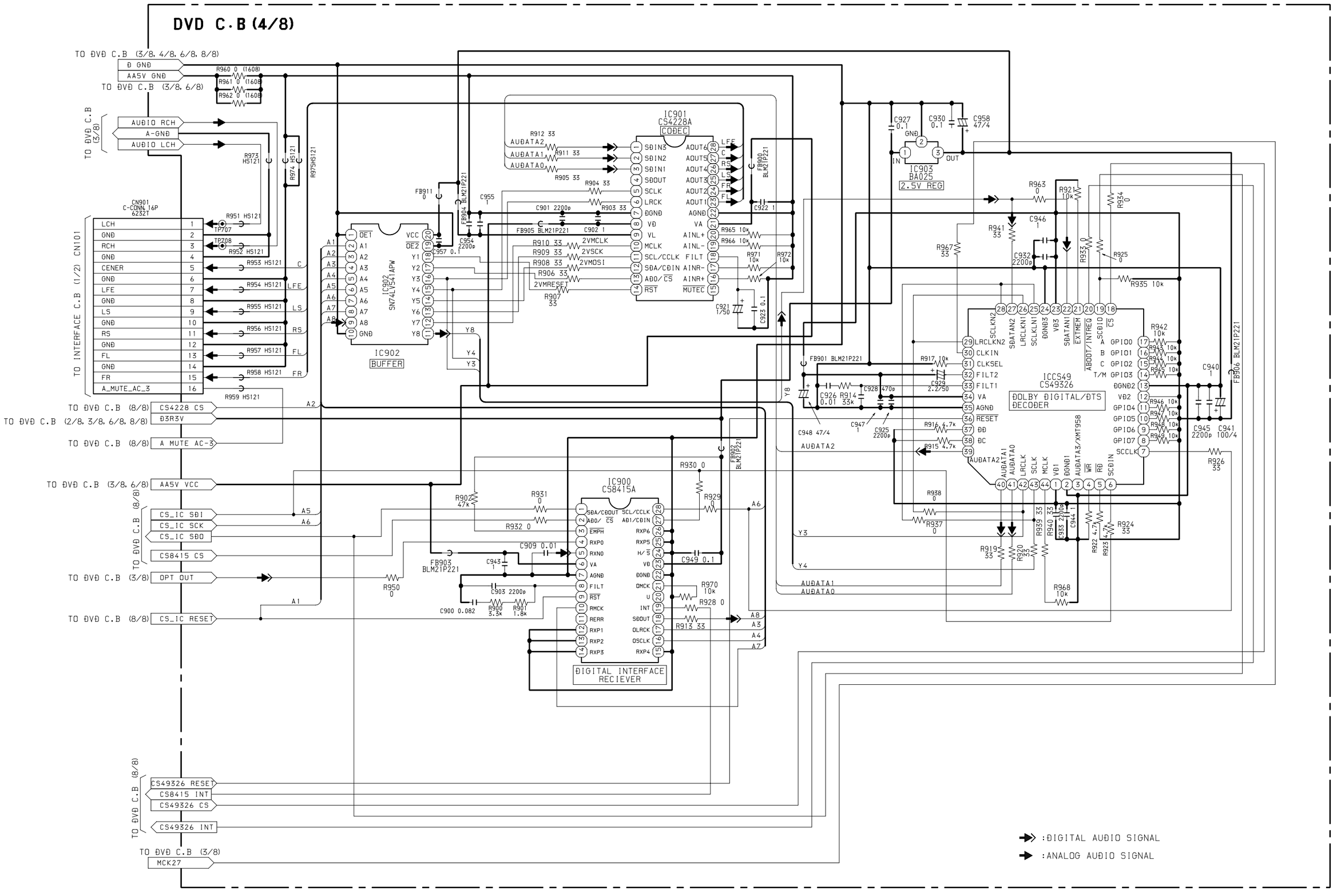


SCHEMATIC DIAGRAM-2/10 (DVD : DSP)

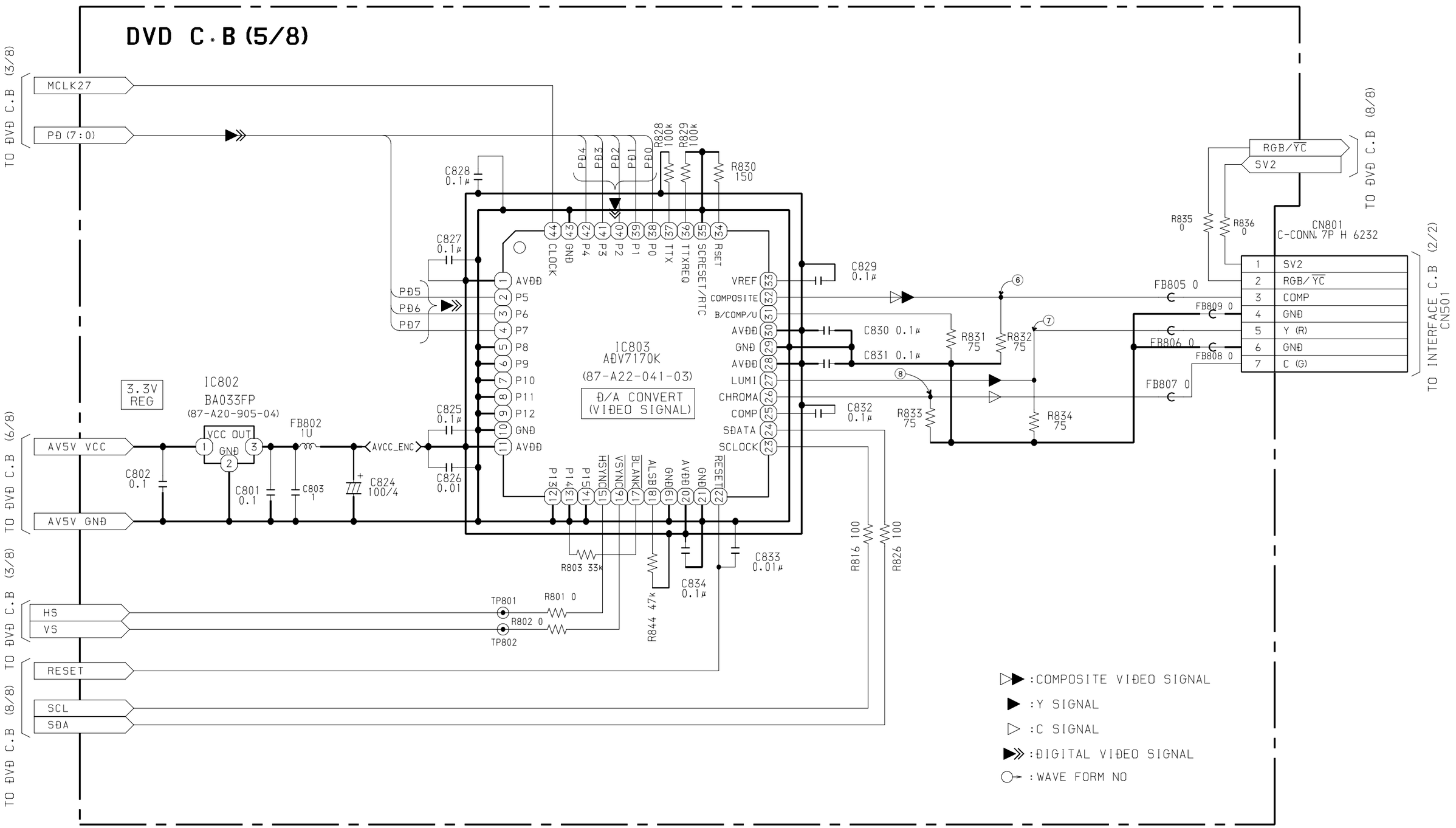


SCHEMATIC DIAGRAM-3/10 (DVD : AV DECODER)

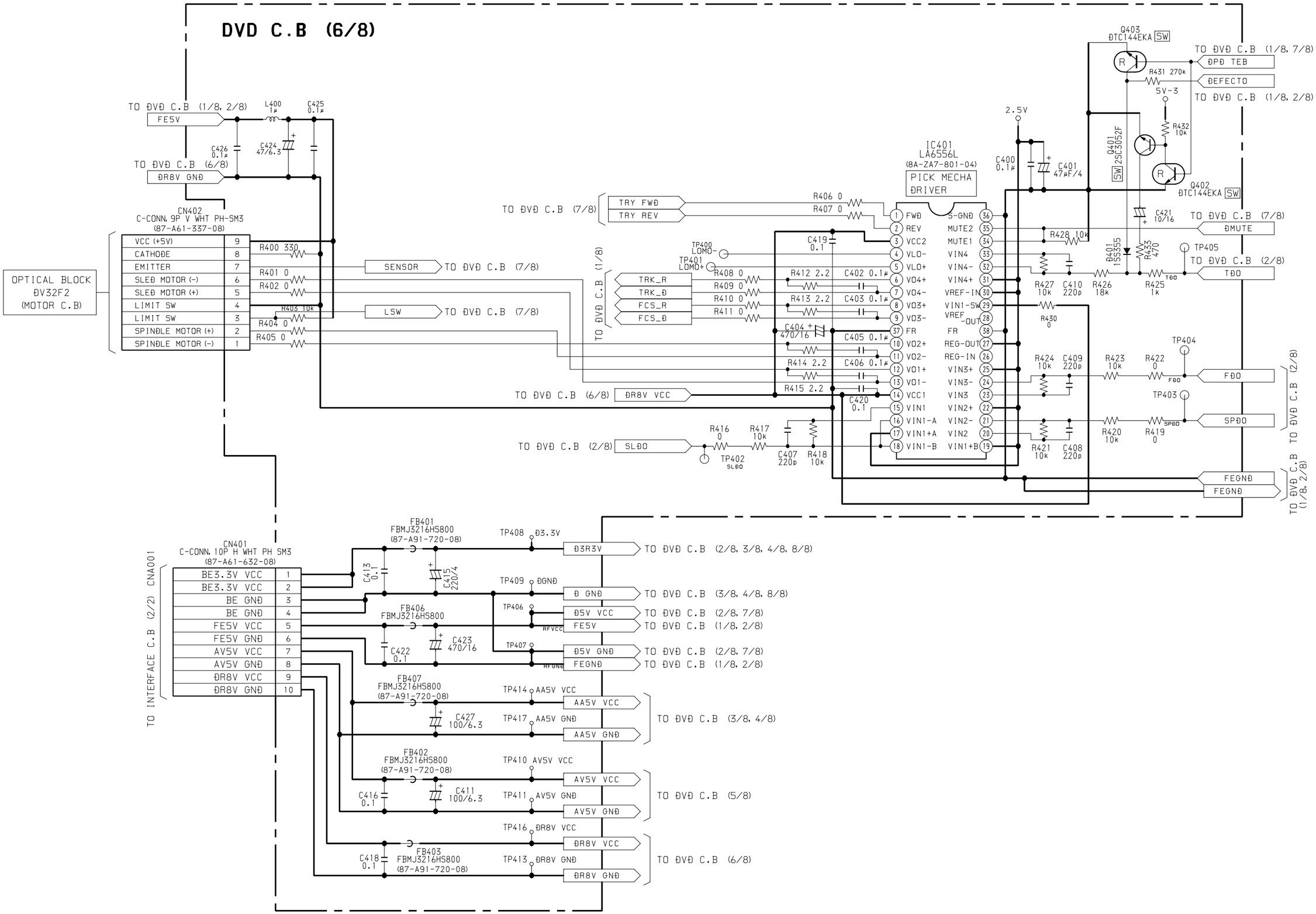

DVD : AV DECODER
DVD C.B (3/8)
IC702 HY57V161610DTC (87-A21-617-01) D RAM
IC701 HY57V161610DTC (87-A21-617-01) D RAM
IC700 L640218 (8Z-AV2-650-01) MPEG DECODER
IC705 SN74LV03APW CLOCK BUFFER
IC703 PLL17101 PLL DRIVER
IC704 PCM1742KE 2CH DAC
Q700~Q702 MUTE CONTROL
CN701 C-CONN 2P H WHT PH-SM3
CN751 NJW1104M(TE2) (87-A21-562-04) AUDIO BUFFER
:DIGITAL AUDIO SIGNAL
:ANALOG AUDIO SIGNAL
:DIGITAL VIDEO SIGNAL
:WAVE FORM NO


DVD C.B (4/8)
TO ĐVĐ C.B (3/8, 4/8, 6/8, 8/8)
Đ GNĐ
AA5V GNĐ
TO ĐVĐ C.B (3/8, 6/8)
R960 0 (1608)
R961 0 (1608)
R962 0 (1608)
TO ĐVĐ C.B (3/8)
AUĐIO RCH
A-GNĐ
AUĐIO LCH
R973 HS121
R974 HS121
R975HS121
CN901
C-CONN 16P
6252T
LCH 1
GNĐ 2
RCH 3
GNĐ 4
CENER 5
GNĐ 6
LFE 7
GNĐ 8
LS 9
GNĐ 10
RS 11
GNĐ 12
FL 13
GNĐ 14
FR 15
A_MUTE_AC_3 16
TO INTERFACE C.B (1/2) CN101
TP707
TP708
R951 HS121
R952 HS121
R953 HS121
R954 HS121
R955 HS121
R956 HS121
R957 HS121
R958 HS121
R959 HS121
C
LFE
LS
RS
FL
FR
IC902
BUFFER
SN74LV541APW
OE1
A1 A2 A3 A4 A5 A6 A7 A8 GNĐ
OE2
VCC
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
IC901
CS4228A
COĐEC
R912 33
R911 33
R905 33
AUĐATA2
AUĐATA1
AUĐATA0
SĐIN3 SĐIN2 SĐIN1 SĐOUT SCLK LRCK ĐGNĐ VĐ VL MCLK SCL/CCLK SĐA/CĐIN ADO/CS RST
AOUT6 AOUT5 AOUT4 AOUT3 AOUT2 AOUT1 AGNĐ VA AINL+ AINL- FILT AINR- AINR+ MUTEC
LFE C RS L FL F FR
FB911 0
FB904 BLM21P221
FB905 BLM21P221
FB900 BLM21P221
C955 1
C954 2200p
C957 0.1
C901 2200p
C902 1
R904 33
R903 33
R910 33
R909 33
R908 33
R906 33
R907 33
2VMCLK
2VSCK
2VMOSI
2VMRESET
R965 10k
R966 10k
R971 10k
R972 10k
C921 1/50
C923 0.1
C922 1
C927 0.1
C930 0.1
C958 47/4
GNĐ
IC903
BA025
2.5V REG
IN
OUT
R963 0
R921 10k
R934 0
R941 33
R967 33
C946 1
C932 2200p
R933 0
R925 0
R935 10k
SCLKN2 SDATAN2 LRCLKN1 SCLKLN1 ĐGNĐ3 VĐ3 SDATAN1 EXTMEM ABOOT/INTREQ SCĐIO CS
LRCLKN2 CLKIN CLKSEL FILT2 FILT1 VA AGNĐ RESET ĐĐ ĐC AUĐATA2
GPIO0 GPIO1 GPIO2 T/M GPIO3 ĐGNĐ2 VĐ2 GPIO4 GPIO5 GPIO6 GPIO7 SCCLK
R942 10k
R943 10k
R944 10k
R945 10k
R946 10k
R947 10k
R948 10k
R949 10k
C940 1
C945 2200p
C941 100/4
FB906 BLM21P221
ICCS49
CS49326
ĐOLBY ĐIGITAL/ĐTS
ĐECOĐER
FB901 BLM21P221
C926 0.01
R914 33k
C928 470p
C929 2.2/50
C947 1
C925 2200p
C948 47/4
R916 4.7k
R915 4.7k
AUĐATA2
AUĐATA1
AUĐATA0
LRCLK SCLK MCLK VĐ1 ĐGNĐ1 AUĐATA3/XMT958 WR RĐ SCĐI
R938 0
R937 0
R939 33
R940 33
C933 2200p
C944 1
R919 33
R920 33
R924 33
R922 4.7k
R923 4.7k
R926 33
R968 10k
Y3
Y4
Y8
IC900
CS8415A
R902 47k
R931 0
R932 0
R930 0
R929 0
SDA/CBOUT SCL/CCLK
AD0/CS AD1/CDIN
EMPH RXP6
RXP0 RXP5
RXN0 H/S VĐ
VA ĐGNĐ
AGNĐ OMCK
FILT U
RST INT
RMCK SĐOUT
RERR OLRCK
RXP1 OSCLK
RXP2 RXP4
RXP3
C909 0.01
FB903 BLM21P221
C943 1
C903 2200p
C900 0.082
R900 3.3k
R901 1.8k
R950 0
R970 10k
R928 0
R913 33
ĐIGITAL INTERFACE
RECIEVER
A1 A2 A3 A4 A5 A6 A7 A8
TO ĐVĐ C.B (8/8)
CS_IC SĐI
CS_IC SCK
CS_IC SĐO
CS8415 CS
TO ĐVĐ C.B (3/8)
OPT OUT
TO ĐVĐ C.B (8/8)
CS_IC RESET
TO ĐVĐ C.B (8/8)
CS4228 CS
TO ĐVĐ C.B (2/8, 3/8, 6/8, 8/8)
Đ3R3V
TO ĐVĐ C.B (8/8)
A MUTE AC-3
TO ĐVĐ C.B (3/8, 6/8)
AA5V VCC
TO ĐVĐ C.B (8/8)
CS49326 RESET
CS8415 INT
CS49326 CS
CS49326 INT
TO ĐVĐ C.B (3/8)
MCK27
:ĐIGITAL AUĐIO SIGNAL
:ANALOG AUĐIO SIGNAL

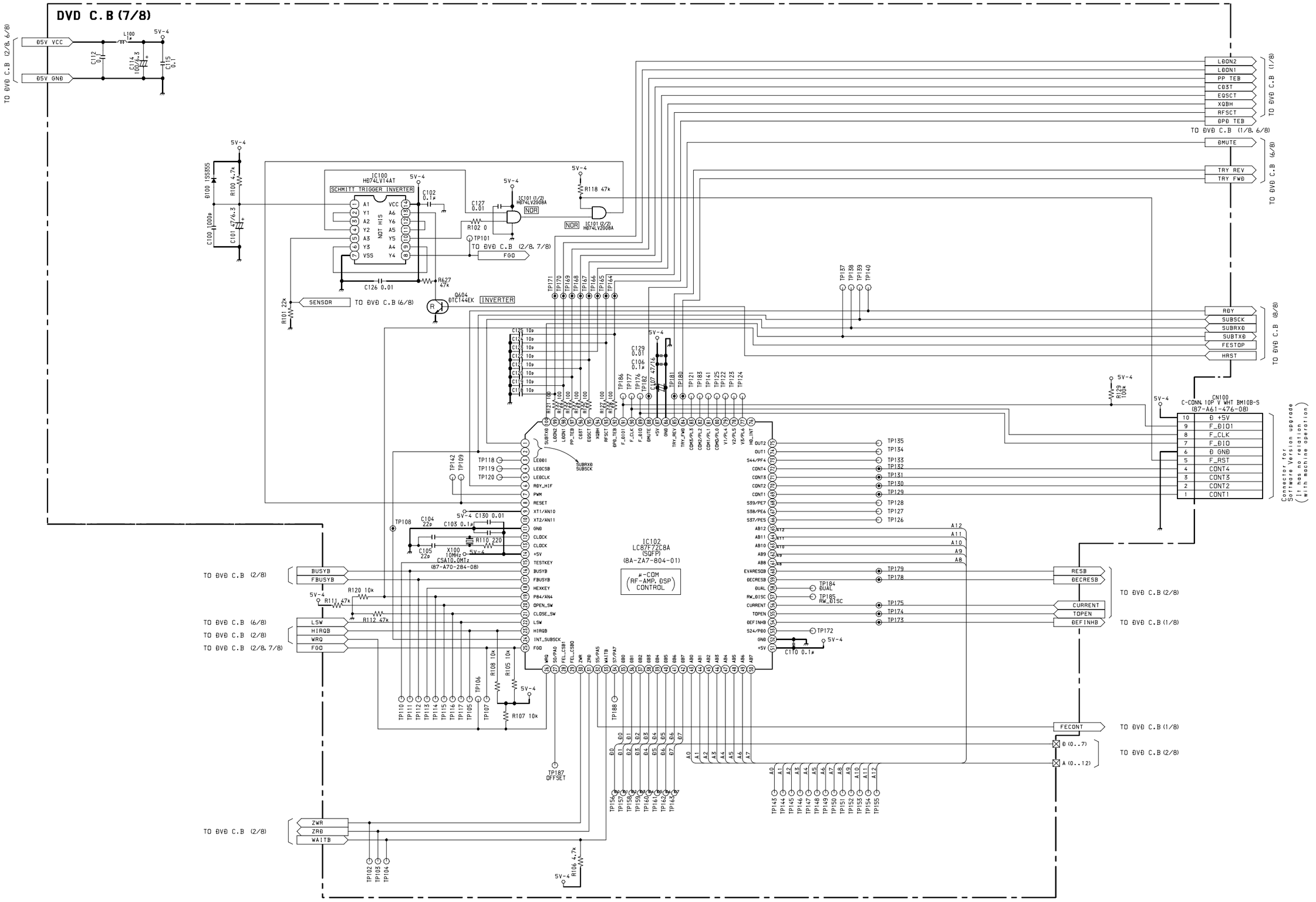
SCHEMATIC DIAGRAM-5/10 (DVD : VODEO ENCODER)



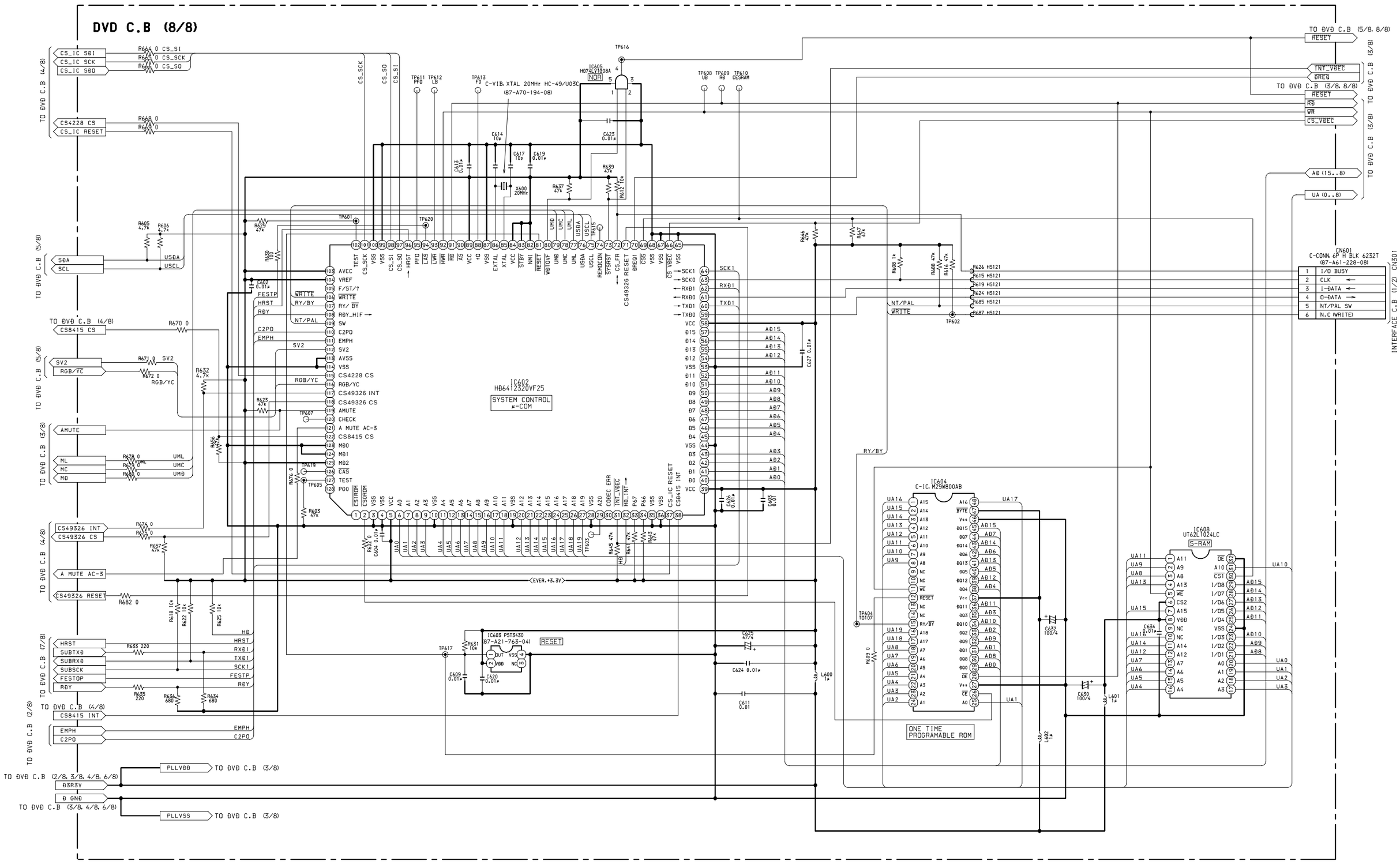
SCHEMATIC DIAGRAM-6-10 (DVD : POWER/SPINDLE DRIVER)



SCHEMATIC DIAGRAM-7/10 (DVD : µ-COM)



SCHEMATIC DIAGRAM-8/10 (DVD : SYSCON)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

INTERFACE C.B

TO MAIN UNIT

CN302

FB101

CN101

TO ĐVĐ C.B CN901

TO ĐVĐ C.B CN601

TO ĐVĐ C.B CN801

Đ-SENS C.B

M401 (TURN TABLE MOTOR)

BLK

RED

CN401

PS401

TO ĐVĐ C.B CN401

J552 S-VIĐEO OUT

J551 VIĐEO OUT

TO MAIN UNIT

CNA001

CNA551

TO ĐVĐ C.B CN701

IC501 ĐIGITAL AUĐIO OUT (OPTICAL)

(OPEN) (CLOSE)

S551 S552

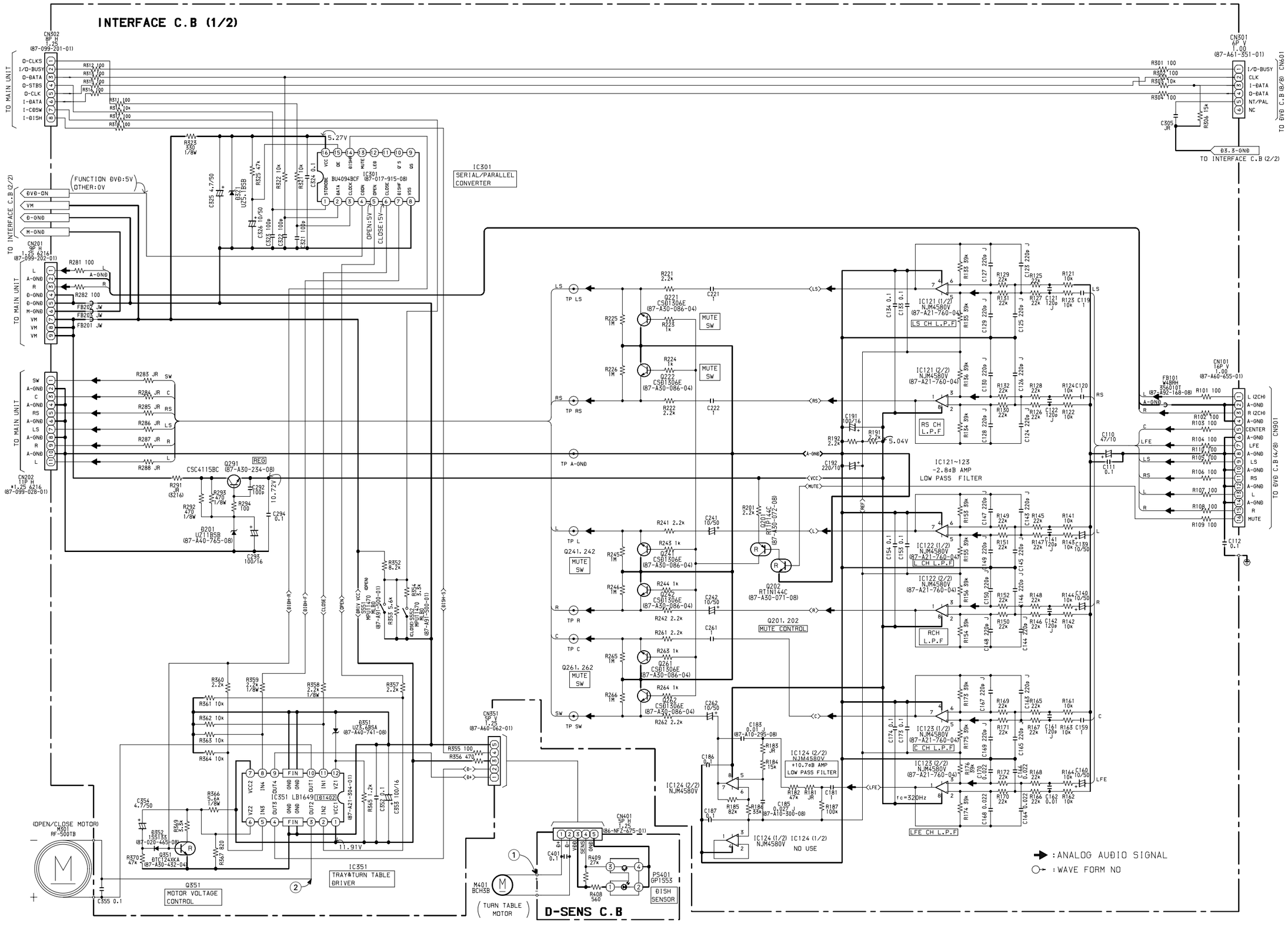
M301

(OPEN/CLOSE MOTOR)

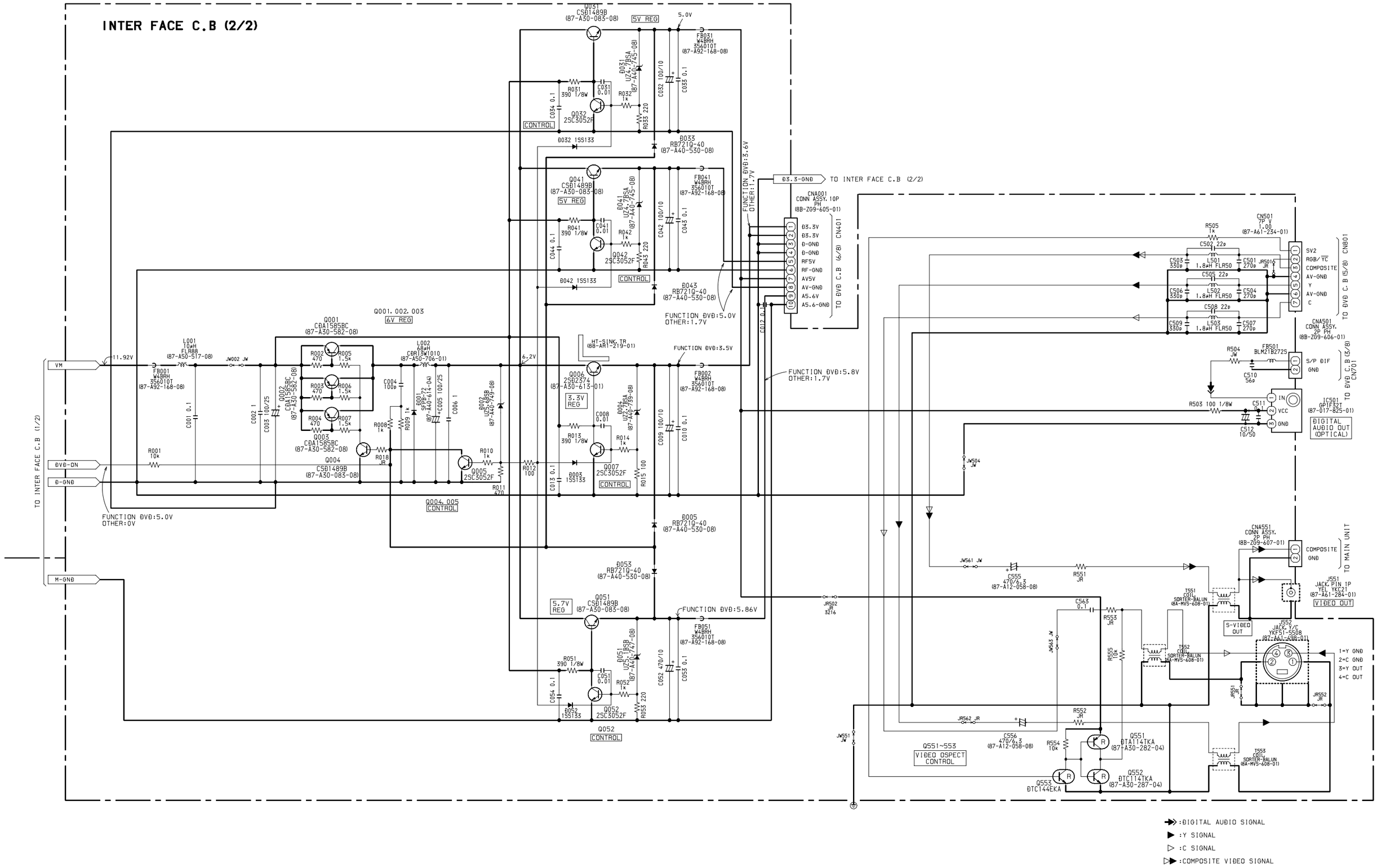
CN202 CN201

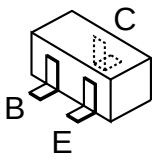
TO MAIN UNIT TO MAIN UNIT

SCHEMATIC DIAGRAM-9/10 (INTER FACE-1/2, D-SENS)

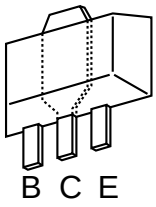


SCHEMATIC DIAGRAM-10/10 (INTER FACE-2/2)

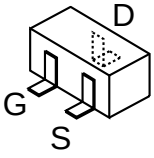




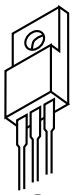
2SA1235
2SC3052F
2SC3326A
CSD1306E
DTA114EK
DTA114TKA
DTC114TKA
DTC124XK
DTC144EK
RT1N144C
RT1P144C



2SB1132



3LN01C

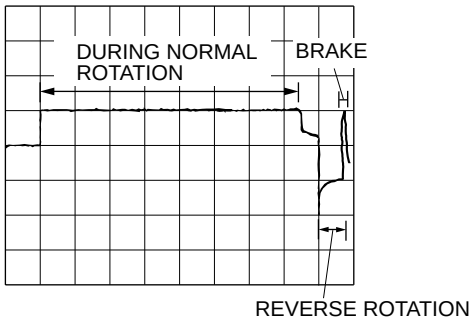


2SD2374

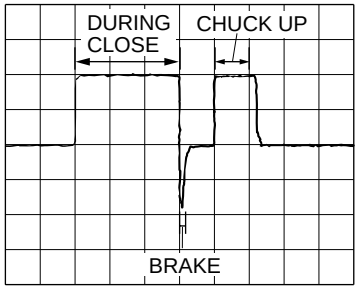
CDA1585BC
CSC4115BC
CSD1489B

WAVE FORM-1/2

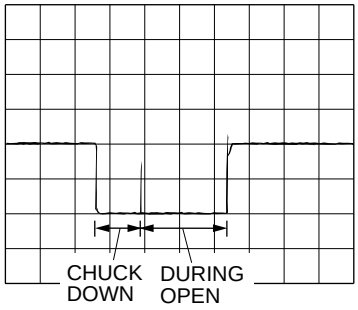
① M401 (TURN TABLE MOTOR) VOLT/DIV: 2V
(M–Side is the reference) TIME/DIV: 200mS



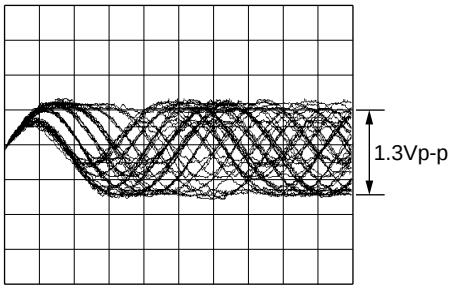
② IC351 Pin③ (OUT2) VOLT/DIV: 2V
(OPEN/CLOSE MOTOR) TIME/DIV: 500mS
(M+Side is the reference)



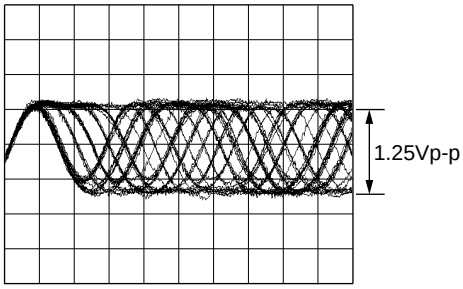
VOLT/DIV: 2V
TIME/DIV: 500mS



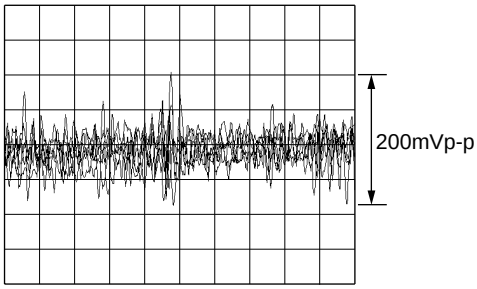
③ TP319 (RFP), TP320 (RFN) VOLT/DIV: 500mV
(DVD) TIME/DIV: 50nS



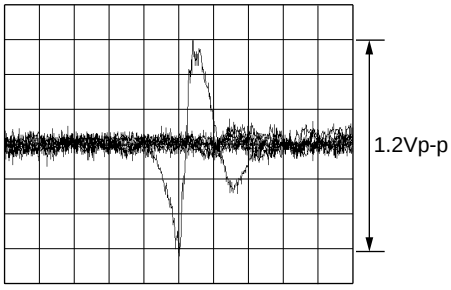
TP319 (RFP), TP320 (RFN) VOLT/DIV: 500mV
(CD) TIME/DIV: 500nS



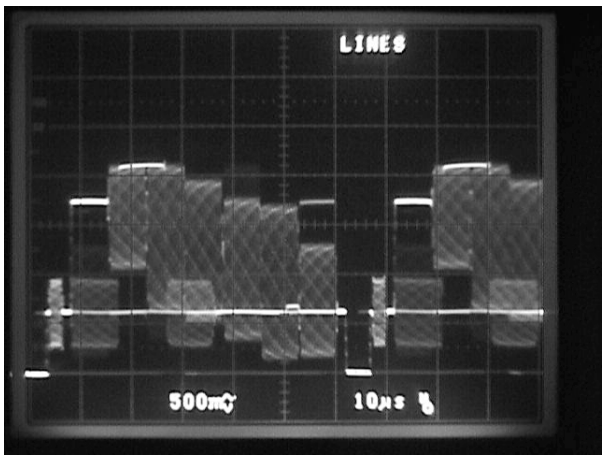
④ TP302 (FE) VOLT/DIV: 50mV
TIME/DIV: 50nS



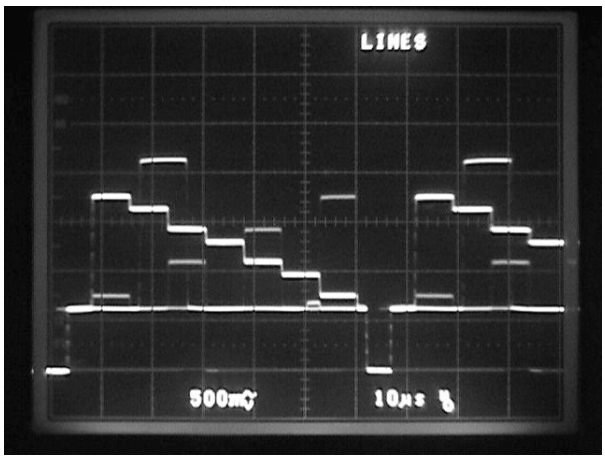
⑤ TP303 (TE) VOLT/DIV: 200mV
TIME/DIV: 200µS



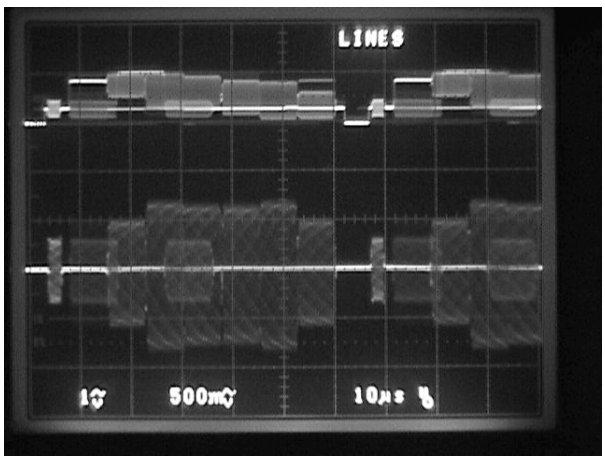
WAVE FORM-2/2



⑥ IC803 pin㉜ (COMPOSITE)
PLAY: NTSC COLOR BAR VOLT/DIV: 500mV
SOFT: A.BEX (PTD1-NOR) TIME/DIV: 10μS

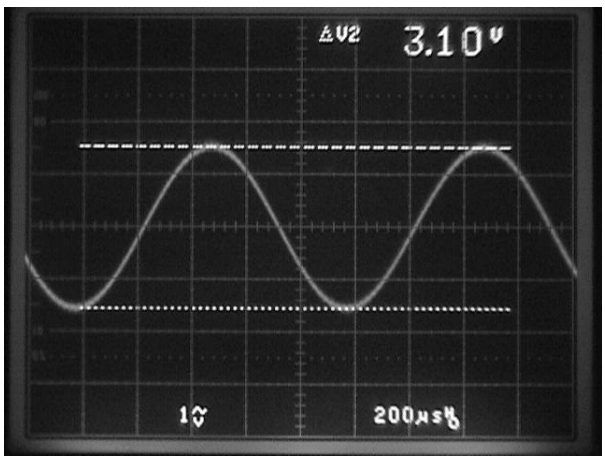


⑦ IC803 pin㉗ (LUMI)
PLAY: NTSC COLOR BAR VOLT/DIV: 500mV
SOFT: A.BEX (PTD1-NOR) TIME/DIV: 10μS



⑥ IC803 pin㉜ (COMPOSITE)
PLAY: NTSC COLOR BAR VOLT/DIV: 1V
SOFT: A.BEX (PTD1-NOR) TIME/DIV: 10μS

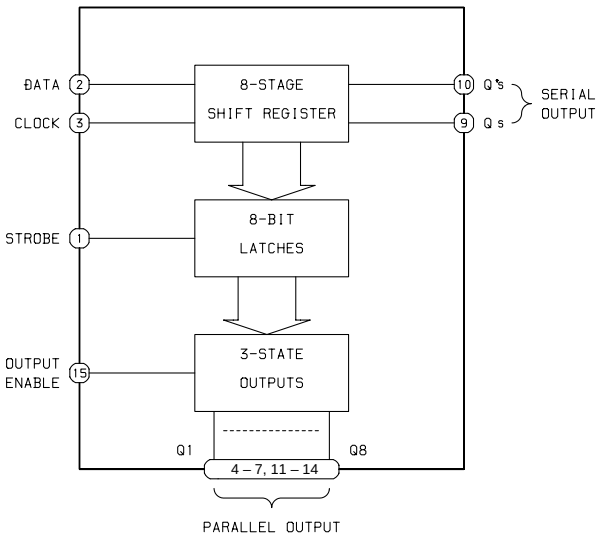
⑧ IC803 pin㉖ (CHROMA)
PLAY: NTSC COLOR BAR VOLT/DIV: 500mV
SOFT: A.BEX (PTD1-NOR) TIME/DIV: 10μS



⑨ IC704 Pin ⑦ (VOUTL) VOLT/DIV: 1V
IC704 Pin ⑧ (VOUTR) TIME/DIV: 200μS
PLAY: NTSC COLOR BAR

IC BLOCK DIAGRAM-1/3

IC, BU4094BCF



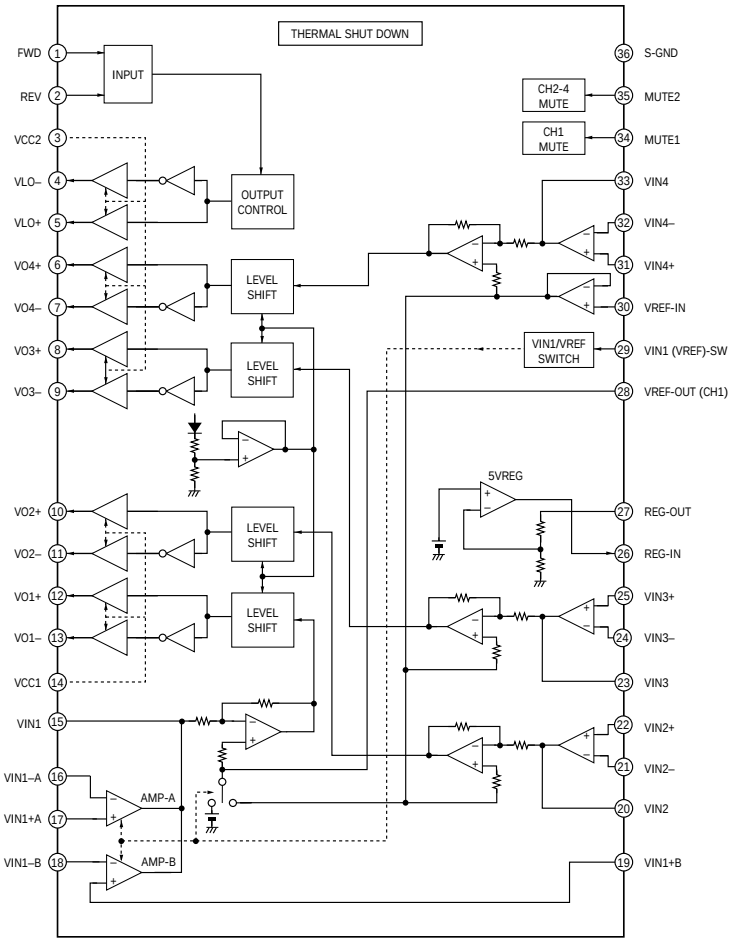
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	ĐATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	×	×	Z	Z	Q7	NO Chg.
↓	L	×	×	Z	Z	No Chg.	Qs
↑	H	L	×	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	×	×	No Chg.	No Chg.	No Chg.	Qs

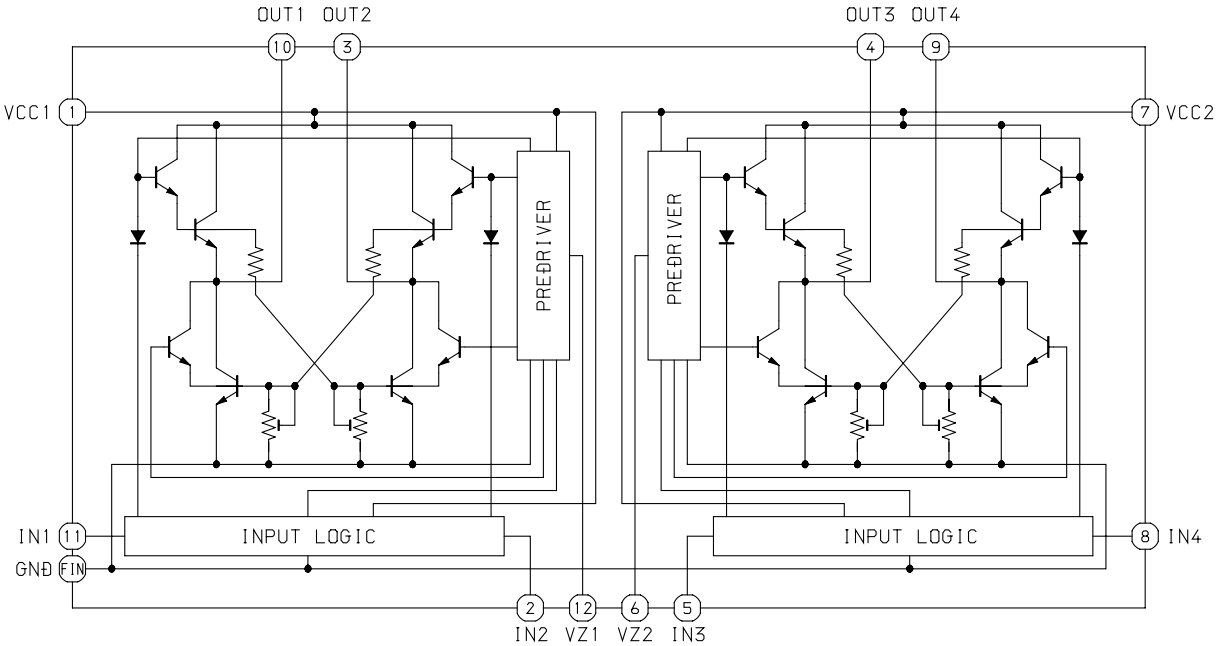
Z=High Impedance

X=Đon't Care

IC, LA6556L

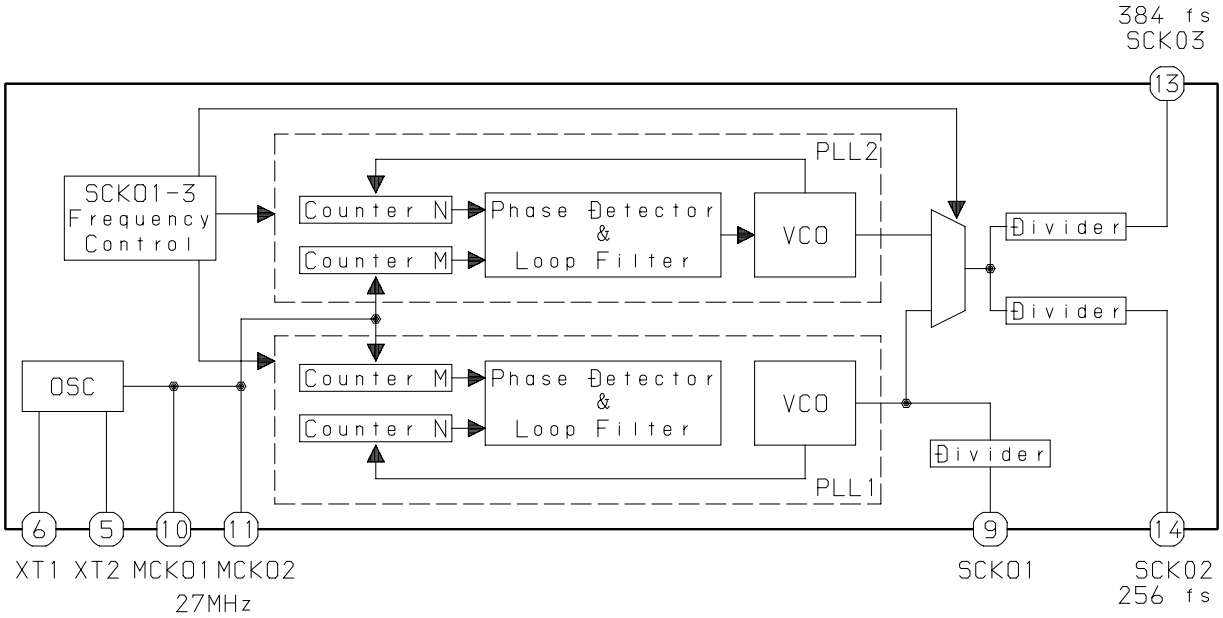


IC, LB1649

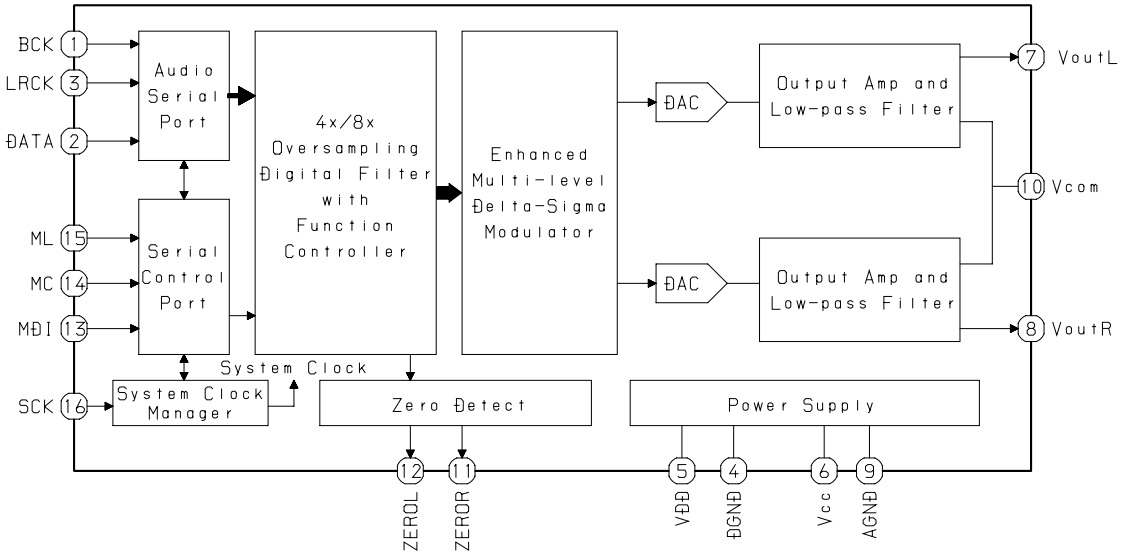


IC BLOCK DIAGRAM-2/3

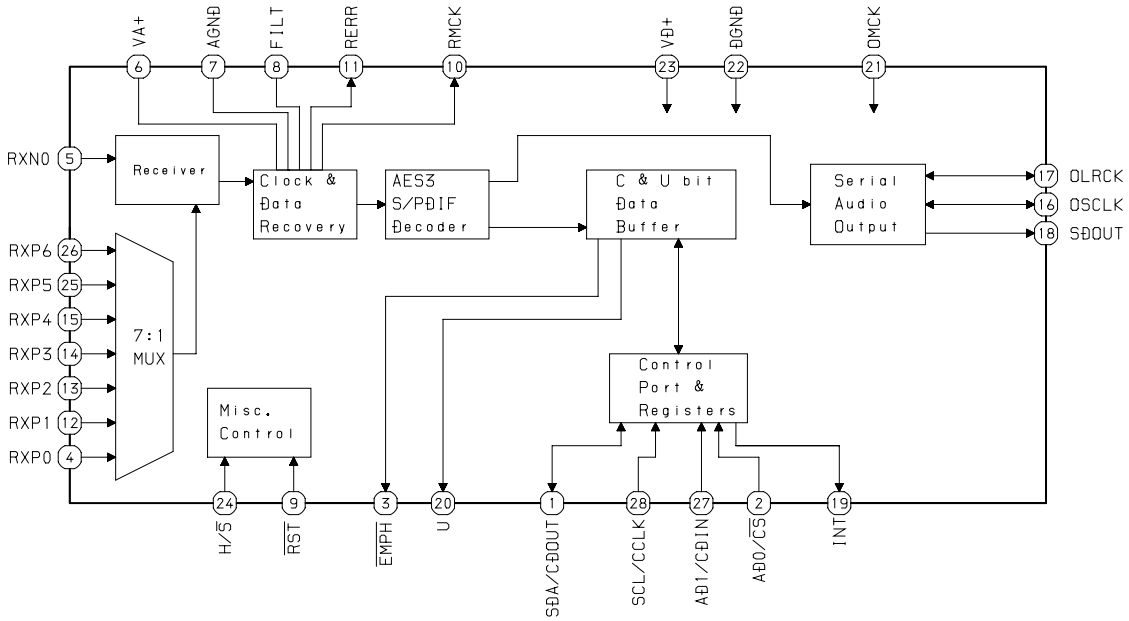
IC, PLL1701



IC, PCM1742 KE

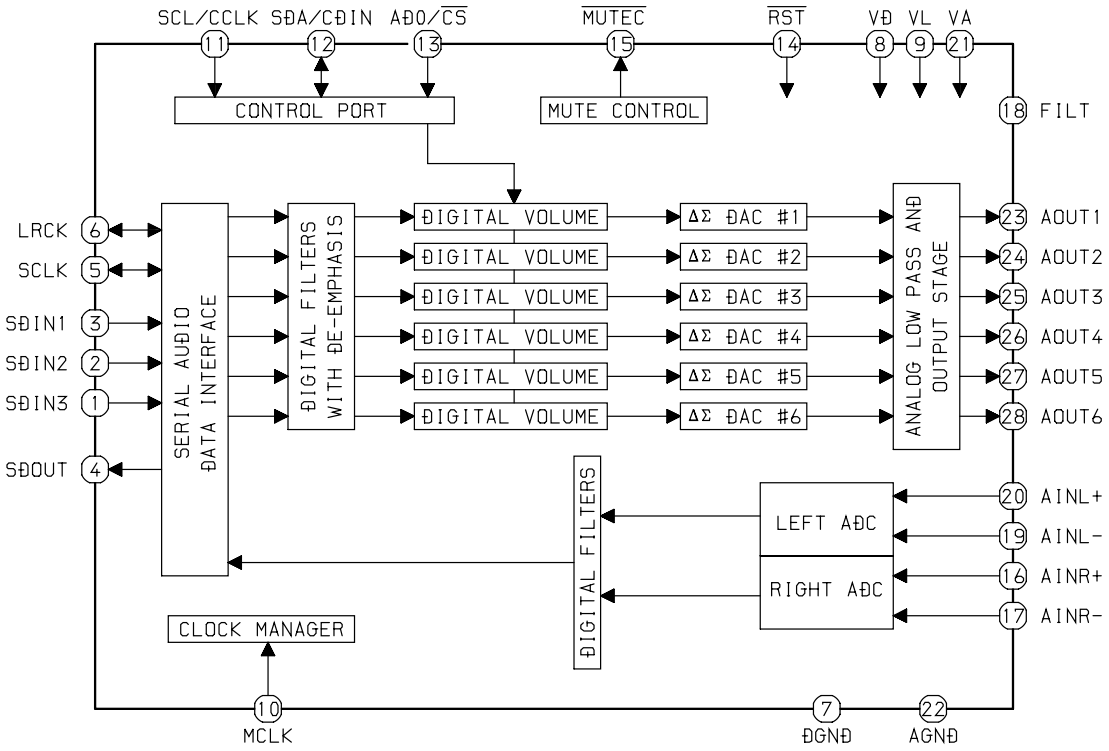


IC, CS8415A

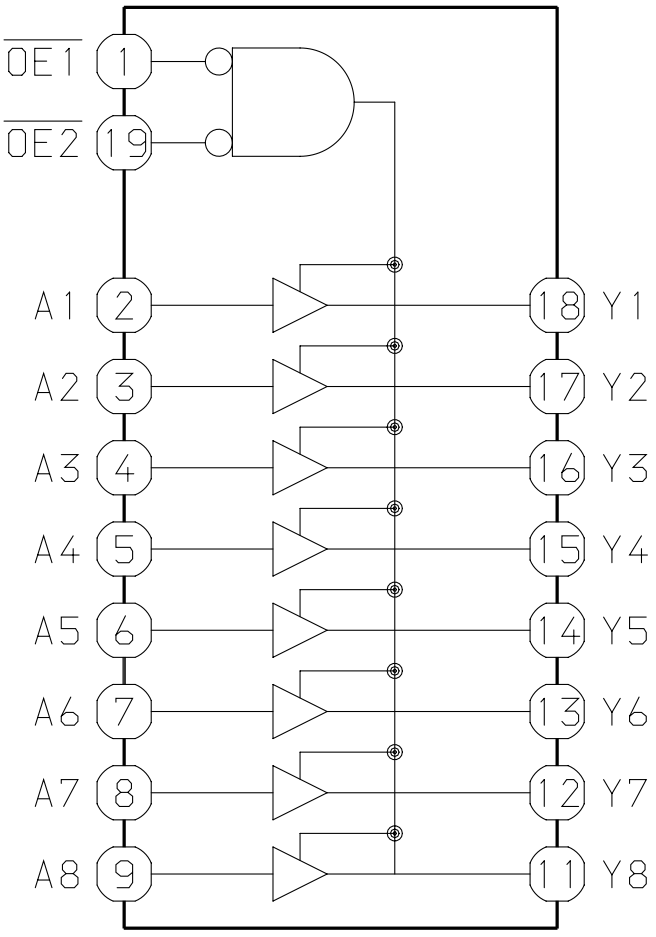


IC BLOCK DIAGRAM-3/3

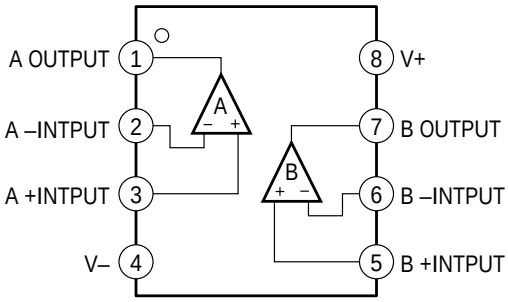
IC, CS4228A



IC, SN74LV541APW



IC, NJM2100



IC DESCRIPTION-1/7 (LC87F72C8A)-1/2

Pin No.	Pin Name	I/O	Description
1	SUBRXD	I	DATA input terminal for LOADER serial communication control.
2	SUBSCK	I	Clock input terminal for LOADER serial communication control.
3	LEDD1	O	Detection of LEDD1.
4	LEDCSB	O	Detection of LEDCSB.
5	LEDCLK	O	Detection of LEDCLK.
6	RDY_HIF	O	LOADER READY signal output terminal.
7	PWM	O	Detection of PWM.
8	RESET	I	Reset signal input terminal.
9	XT1/AN10	I	Input for 32.768kHz crystal oscillation. AD input port: AN10. (Connected to power supply)
10	XT2/AN11	I/O	Out put for crystal oscillation. AD input port: AN11. (Not Connected)
11	GND	—	GND.
12	CLOCK	I	In put for 10MHz crystal oscillation.
13	CLOCK	O	Out put for 10MHz crystal oscillation.
14	5V	—	Power supply 5V.
15	TESTKEY	O	TESTKEY output pin.
16	BUSYB	I	DSP command dispose busy signal input pin.
17	FBUSYB	I	DSP command receiver busy signal input pin.
18	HEXKEY	O	Detection of HEXKEY.
19	P84/AN4	I	Detection of P84/AN4.
20	OPEN_SW	I	Detection of OPEN SW. (Pull up)
21	CLOSE_SW	I	Detection of CLOSE SW pin. (Pull down)
22	LSW	I	LIMIT SW input pin.
23	HIRQB	I	Interrupt signal input pin.
24	INT_SUBSCK	I	Clock input terminal for LOADER serial communication control.
25	FGO	I	SENSER input.
26	WRQ	I	Subcode Q read ready monitor input.
27	S0/PA0	O	LCD display segment output.
28	FEL_CSBI	O	Chip select signal output pin. (Not Connected)
29	FEL_CSBO	O	Chip select signal output pin. (Not Connected)
30	ZWR	O	Write signal output pin.
31	ZRD	O	Read signal output pin.
32	S5/PA5	O	FECONT control output pin.
33	WAITB	I	Wait signal input pin.
34	S7/PA7	I/O	Detection of S7/PA7.
35-42	DB0-7	I/O	Data 0-7.
43-50	AB0-7	O	Address 0-7.
51	5V	—	Power supply 5V.
52	GND	—	GND.
53	S24/PD0	O	Detection of S24/PD0.
54	DEFINHB	O	DEFINHB control output.
55	TOPEN	I	RF general-purpose port output pin 0.

Pin No.	Pin Name	I/O	Description
56	CURRENT	I	RF general-purpose port output pin 2.
57	RW_DISC	O	RW DISC control output pin.
58	DUAL	O	DUAL control output pin.
59	DECRESB	O	Decoder reset output pin.
60	EVARESOB	O	System reset output pin.
61-65	AB8-12	O	Address 8-12.
66-68	S37-39/PE5-7	O	Detection of S37-39/PE5-7.
69-72	CONT1-4	O	CONT1-4 output pin.
73	S44/PF4	O	Detection of S44/PF4.
74, 75	OUT 1, 2	O	Detection of OUT 1, 2.
76	HD_INT	O	Interropt signal for AV DECODER IC/TEST PIN. (Not Connected)
77-79	V3-1/PL6-4	O	Detection of V3-1/PL6-4.
80-83	COM0-3/PL0-	O	Detection of COM0-3/PL0-3.
84	3TRY_FWD	O	TRY control output.
85	TRY_REV	O	TRY control output.
86	GND	—	GND.
87	5V	—	Power supply pin (+).
88	DMUTE	O	MUTE output pin.
89	F_DIO	O	F_DIO output pin.
90	F_CLK	O	F_CLK output pin.
91	F_DIOI	O	F_DIOI output pin.
92	DPD_TEB	O	DPD_TEB output.
93	RFSCT	O	RFSCT control output.
94	XQBH	O	XQBH out put. (Not Connected)
95	EQSCT	O	EQSCT output.
96	CD3T	O	CD3T control output.
97	PP_TEB	O	PP TEB output.
98, 99	LDON1, 2	O	LDON 1, 2 output.
100	SUBTXD	O	DATA output terminal for LOADER serial communication control.

Pin No.	Pin Name	I/O	Description
1	RFPI	I	RF input port pin. (Pull down)
2	TEST0	I/O	Tracking margin signal I/O pin.
3	DVDD2	—	A/D D/A internai logic power supply. [Digital 5V]
4	DVSS	—	Digital GND.
5	AD5/BH	I	Servo A/D input pin. (AD5: Assistant input 5)
6	AD4/PH/TE	I	Servo A/D input pin. (AD4: Assistant input 4)
7	AD3	I	Servo A/D input pin. (AD3: Assistant input 3)
8	AD2	I	Servo A/D input pin. (AD2: Assistant input 2)
9	AD1/JV	I	Servo A/D input pin. (AD1: Assistant input 1)
10	AD0/RREC	I	Servo A/D input pin. (AD0: Assistant input 0)
11	RF_PH	I	Servo A/D input pin. (RF_PH: RF peak hold signal)
12	RF_BH	I	Servo A/D input pin. (RF_BH: RF bottom hold signal)
13	TE	I	Servo A/D input pin. (TE: Tracking error signal)
14	FE	I	Servo A/D input pin. (FE: Focus error signal)
15	TEST0	I	Test input pin 0. (L Fixed)
16	EFMINP	I	EFM/EFM+input pin.
17	TEST1	I	Test input pin 1. (L Fixed)
18	EFMINN	I	EFM-input pin.
19	SLCLPF0	—	SLC LPF pin.
20	SLCLPF1	—	SLC LPF pin.
21	SLC01	—	SLC control pin.
22	SLC02	—	SLC control pin.
23	AVDD1	—	A/D D/A SLC power supply. [Analog 5V]
24	ADSS	—	Analog GND.
25	VREF	O	Servo D/A standerd voltage. [2.5V]
26	SLCBIAS	O	Servo D/A output pin. (SLCBIAS: SLC standerd voltage signal)
27	TESBIAS	O	Servo D/A output pin. (TESBIAS: TES standerd voltage signal)
28	HFLBIAS	O	Servo D/A output pin. (HFLBIAS: HFL standerd voltage signal)
29	OFSET	O	Servo D/A output pin. (OFSET: Assistant signal)
30	BCA	O	Servo D/A output pin. (BCA: Assistant signal)
31	BOOT3T	O	Servo D/A output pin. (BOOT3T: Assistant signal)
32	RFVCA	O	Servo D/A output pin. (RFVCA: Assistant signal)
33	TBAL	O	Servo D/A output pin. (TBAL: Tracking balance control signal)
34	FBAL	O	Servo D/A output pin. (FBAL: Focus balance control signal)
35	SGC	O	Servo D/A output pin. (SGC: Assistant signal)
36	SLSO	O	Servo D/A output pin. (SLSO: Thread control signal)
37	SPDO	O	Servo D/A output pin. (SPDO: Spindle control signal)
38	TDO	O	Servo D/A output pin. (TDO: Tracking control signal)
39	FDO	O	Servo D/A output pin. (FDO: Focus control signal)
40	DVSS	—	Digital GND.
41	DVDD0	—	Internal logic power supply. [Digital 3.3V]

Pin No.	Pin Name	I/O	Description
42	FG	I	FG counter input pin.
43	EVENT	I	EVENT counter input pin. (Pull down)
44	HFLIO	I/O	Mirror detest signal I/O pins.
45-48	PP0-3	I/O	General-purpose port 0-3. (Pull down)
49	WRQ	O	Subcode Q read ready monitor pin.
50	HFBUSYB	O	DSP command dispose busy signal output pin.
51	HBUSYB	O	DSP command receiver busy signal output pin.
52	DVDD3	—	I/O power supply. [Digital 5V]
53	DVSS	—	Digital GND.
54	HWAITB	O	Wait signal output pin.
55	HIRQB	O	Interrupt signal output pin.
56	DVDRESB	I	Decoder reset input pin.
57	RESB	I	System reset input pin.
58	HRDB	I	Read signal input pin.
59	HWRB	I	Write signal input pin.
60	HCSB	I	Chip select signal input pin. (Not Connected)
61-68	HDAT0-7	I/O	Data0-7.
69-81	HADR0-12	I	Address0-12.
82	DVDD3	—	I/O power supply. [Digital 5V]
83	DVSS	—	Digital GND.
84	PW/FSEQ	O	Subcode [P, Q, R, S, T, U, V and W] data output pin.
85	SBCK	I	Subcode data readout shift clock input pin. (Connected to GND)
86	SBSY	O	Subcode block synchronization signal output pin. (No connected)
87	SFSY	O	Subcode frame synchronization signal output pin.
88	FSX	O	CD1 frame synchronization signal.
89	EFLG	O	Error correction C1, C2 correction conditions monitor pins.
90, 91	PP4, 5	I/O	General-purpose port4, 5. (Pull down)
92	X16MOUT	O	Internal 16MHz output pin. (No connected)
93	X16MIN	I	External 16MHz input pin.
94	TEST2	I	Test input pin2. (L Fixed)
95	DVDCKOUT	O	Internal DVD clock output pin.
96	DVDCKIN	I	External DVD clock input pin. (L Fixed)
97	TEST3	I	Test input pin3. (L Fixed)
98	DVDD0	—	Internal logic power supply. [Digital 3.3V]
99	DVSS	—	Digital GND.
100	VPDO	—	SYSTEM PLL filter connection pin.
101	VRPFR	—	SYSTEM PLL VCO oscillator range adjustment pin.
102	VCOC	—	SYSTEM PLL filter connection pin.
103	AVSS	—	Analog GND.
104	AVDD3	—	SYSTEM VCO power supply. [Analog 3.3V]
105	DVSS	—	Digital GND.

Pin No.	Pin Name	I/O	Description
106	XIN	I	Oscillator circuit input pin. (16.9344MHz)
107	XOUT	O	Oscillator circuit outpit pin. (16.9344MHz)
108	DVDD6	—	Oscillator circuit power supply. [Digital 3.3V]
109, 110	PP6, 7	I/O	General-purpose port6, 7. (Pull down)
111	AVREQIO	I/O	AV data demand flag I/O pins.
112	AVACKOI	I/O	AV data read strobe output pin.
113	AVDACK	O	AV data read (Clock/Enable) output pins.
114	AVSCTB	O	AV output sector synchronization output pin.
115	AVERRB	O	AV data reliable flag output pin.
116	DVSS	—	Digital GND.
117	DVDD4	—	I/O power supply. [Digital 3.3V]
118-125	AVD0-7	O	AV data0-7.
126	C2F	O	C2 flag output pin.
127	ROMXA	O	CD data output pin.
128	ROMCK	O	CD data output shift lock output pin.
129	LRSY	O	CD data output L/R clock output pin.
130	EMPH	O	Deemphasis monitor pin.
131	DOUT	O	Audio EIAJ data output pin.
132	DVDD4	—	I/O power supply. [Digital 3.3V]
133	DVSS	—	Digital GND.
134	EFMOUT	O	EFM 2 value signal output pin.
135	LEFM	O	Output pin for the signal picked out from EFM binary signal with PCK.
136	PCK	O	EFM playback shift clock output pin.
137	DVDD4	—	Inner logic power supply. [Digital 3.3V]
138	DVSS	—	Digital GND.
139	VCOCTL	—	VCO filter connection pin.
140	PPDO	—	Phase comparison filter connection pin.
141	FPDO	—	Frequency comparison filter connection pin.
142-144	LF1-3	—	Filter connection pin1-3.
145	PCN	—	Voltage monitor pin. (Phase comparison charge pomp PCH control voltage)
146	PISET	—	Current setting pin for the constant-current phase comparison charge pump.
147	FISET	—	Current setting pin for the constant-current frequency comparison charg pump.
148	CDFR	—	EFM playback VCO oscillator range setting pin. [For CD] (Pull down)
149	DVDFR	—	EFM playback VCO oscillator range setting pin. [For DVD] (Pull down)
150	AVDD2	—	EFM PLL JV power supply. [Analog 5V]
151	AVSS2	—	Analog GND.
152, 153	JVCPI, JVCPC	—	JV control pin.
154	JVAO	O	EFM playback PLL clock jitter output pin.
155	JVAIN	—	JV control pin. (Pull down)
156	JVRVO	—	JV control pin. (No connected)
157	AVDD4	—	SYSTEM PLL power supply. [Analog 3.3V]

Pin No.	Pin Name	I/O	Description
158	AVSS	—	Analog GND.
159-166	MD15-8	I/O	DRAM data15-8.
167	DVDD5	—	I/O power supply. [Digital 5V]
168	DVSS	—	Digital GND.
169-176	MD7-0	I/O	DRAM data7-0.
177-184	MA0-7	O	DRAM address0-7.
185	DVDD5	—	I/O power supply. [Digital 5V]
186	DVSS	—	Digital GND.
187	MA8	O	DRAM address8.
188-191	MA9-12	O	DRAM address9-12. (No connected)
192	MRAS0B	O	RAS output pin0.
193	MRAS1B	O	RAS output pin1. (No connected)
194	MCASUB	O	CAS output pin. (Upper Byte)
195	MCASLB	O	CAS output pin. (Lower Byte)
196	MOEB	O	OE output pin.
197	MWEB	O	WE output pin.
198	DVSS	—	Digital GND.
199	DVDD0	—	Inner logic power supply. [Digital 3.3V]
200-204	RFP0-4	O	RF general-purpose port output pin0-4.
205	DBFECTO	O	Defect signal output pin.
206	DEFECTTI	I	Defect signal input pin.
207	DVSS	—	Digital GND.
208	DVDD1	—	I/O power supply. [Digital 5V]

Pin No.	Pin Name	I/O	Description
1	RFM	I	RF signal - input. (Pull up)
2	RFP	I	RF signal + input.
3	PD1	I	Pickup signal input.
4	PD2	I	Pickup signal input.
5	PD3	I	Pickup signal input.
6	PD4	I	Pickup signal input.
7	PD5	I	Pickup signal input.
8	PD6	I	Pickup signal input.
9	PD7	I	Pickup signal input.
10	PD8	I	Pickup signal input.
11	PD9	I	Pickup signal input.
12	VCC	—	Power supply. (Servo signal system)
13	LDD1	O	APC1 output.
14	LDS1	I	APC1 monitor voltage input.
15	LDD2	O	APC2 output.
16	LDS2	I	APC2 monitor voltage input.
17	GND	—	Ground. (Servo signal system)
18	SGC	I	Servo gain control terminal. (RREC, FE, TE)
19	FBAL	I	Focus balance adjustment terminal.
20	TEBL	I	Tracking balance adjustment terminal.
21	VGA	I	RF gain adjustment terminal.
22	BST	I	Equalizer boost adjustment terminal.
23	FOST	I	Focus offset adjustment terminal.
24	TOST	I	Tracking offset adjustment terminal.
25	BCATH	I	BCA threshold adjustment terminal.
26	REFI	I	Reference voltage setting terminal.
27	2.5V OUT	O	Reference voltage output for servo signal.
28	RRBC	O	Reflection output.
29	FE	O	Focus error output.
30	TE	O	Tracking error output.
31	THC	—	External capacitor for setting TE hold time constant is connected to this terminal.
32	WO	O	Warble output terminal.
33	ISET	—	External resistor for setting BPF center frequency is connected to this terminal. (Pull down)
34	WOI	I	Push-pull signal input.
35	WOO	O	Push-pull signal output.
36	TEO	—	TE gain setting terminal for 3 beam.
37	TEN	—	TE gain setting terminal for 3 beam.
38	CP	—	External resistor and capacitor for setting charge pump gain, are connected to this terminal.
39	BHI	—	External resistor for setting bottom hold detection constant, is connected to this terminal. (Pull down)
40	RFON	O	RF - output.

Pin No.	Pin Name	I/O	Description
41	RFOP	O	RF + output.
42	BH	O	RF bottom detection output.
43	PHI	—	External resistor for setting peak hold detection constant, is connected to this terminal. (Pull down).
44	PH	O	RF peak detection output.
45	BCA	O	BCA output.
46	DEF	O	Defect output. (H: Defect detection)
47	DEFC	—	External resistor for defect detection is connected to this terminal.
48	TC	—	External resistor for setting defect detection constant is connected to this terminal.
49	GND	—	Ground. (DPD system)
50	LPC	—	External capacitor for RF DC servo is connected to this terminal.
51	CPOF	I	Charge pump OFF terminal. (H: OFF)
52	EQO2	—	RF equalizer setting terminal.
53	TH	I	Tracking hold. (H: Hold)
54	EQL2	I	RF equalizer setting terminal.
55	VCC	—	Power supply. (DPD system)
56	EQO4	O	RF equalizer setting terminal.
57	XHTR	I	Tracking bottom detection band switch. (L: High band)
58	BQL4	I	RF equalizer setting terminal.
59	XQBH	I	Bottom detection constant switch. (L: High speed)
60	EQO3	O	RF equalizer setting terminal.
61	EQSCT	I	Equalizer switcher. (H: 77-pin selection, L: 52-pin selection)
62	EQI3	I	RF equalizer setting terminal.
63	DPD/TEB	I	DPD 3-beam tracking switcher. (H: DPD)
64	RFO2	O	RF output.
65	RFO1	O	RF output.
66	VCC	—	Power supply. (RF system)
67	EQI1	I	RF equalizer setting terminal.
68	TE/PP	I	3-beam push-pull tracking switcher. (L: 3-beam)
69	EQO1	O	RF equalizer setting terminal.
70	LDON2	I	APC2 laser ON terminal. (H: ON)
71	EQI2	I	RF equalizer setting terminal.
72	LDON1	I	APC1 laser ON terminal. (H: ON)
73	EQO2	O	RF equalizer setting terminal.
74	GND	—	Ground. (RF system)
75	EQL1	I	RF equalizer setting terminal.
76	RFSCT	I	RF input switcher. (H: RF different input, PP error)
77	EQO1	O	RF equalizer setting terminal.
78	CAO	O	Customer amplifier output.
79	PREF	—	Reference voltage output. (for pick)
80	OAN	I	Customer amplifier input.

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{CS1ROM}}$	O	Not used.
2	$\overline{\text{CS0ROM}}$	O	Chip select output terminal for ROM.
3, 4	VSS	—	GND.
5	VCC	—	Power input terminal. EVER +3.3 V.
6-9	A0-3	O	Address bus output terminal.
10	VSS	—	GND.
11-18	A4-11	O	Address bus output terminal.
19	VSS	—	GND.
20-27	A12-19	O	Address bus output terminal.
28	VSS	—	GND.
29	A20	O	Not used.
30	CODEC_ERR	—	
31	$\overline{\text{INT\_VDEC}}$	I	Interrupt signal for AV DECODER IC.
32	$\overline{\text{HD\_INT}}$	I	Interrupt signal from LOADER.
33, 34	P67, 66	I	P67, 66 Port. (Pull up)
35, 36	VSS	—	GND.
37	AK_SCK	O	AK_SCK output pin.
38	CS8415_INT	I	Interrupt signal from CS8415.
39	VCC	—	Power input terminal. EVER +3.3 V.
40-43	D0-3	I/O	Data bus input/output terminal.
44	VSS	—	GND.
45-52	D4-11	I/O	Data bus input/output terminal.
53	VSS	—	GND.
54-57	D12-15	I/O	Data bus input/output terminal.
58	VCC	—	Power input terminal. EVER +3.3 V.
59	TXD0	O	Data output terminal for FL DRIVER IC serial communication control.
60	TXD1	O	Data output terminal for LOADER serial communication control.
61	RXD0	I	Data input terminal for FL DRIVER IC serial communication control.
62	RXD1	I	Data input terminal for LOADER serial communication control.
63	SCK0	O	Clock output terminal for FL DRIVER IC serial communication control.
64	SCK1	O	Clock output terminal for LOADER serial communication control.
65	VSS	—	GND.
66	$\overline{\text{CS VDEC}}$	O	Chip select output terminal for AV DECODER IC.
67, 68	VSS	—	GND.
69	$\overline{\text{CS5}}$	O	Chip select output terminal for SRAM.
70	DREQ1	I	DMA transfer request.
71	CS49326 RESET	O	CS49326 RESET output pin.
72	CS_FR	O	FL DRIVER IC chip select output terminal.
73	$\overline{\text{SYSRST}}$	O	System reset signal output terminal.
74	REMOCON	I	Remote control signal input terminal. (Not connected)
75	USCL	O	I^2C clock output terminal for EERROM, video encoder IC.

Pin No.	Pin Name	I/O	Description
76	USDA	O	I²C data output terminal for EERROM, video encoder IC.
77	UML	O	Data enable signal output terminal for AUDIO DAC IC control.
78	UMC	O	Clock for AUDIO DAC IC control.
79	UMD	O	Data output terminal for AUDIO DAC IC control.
80	$\overline{\text{WDTOVF}}$	O	Watch dog timer overflow signal output terminal.
81	$\overline{\text{RESET}}$	I	Micro processor reset input terminal.
82	NMI	I	Fixed is to “H”.
83	$\overline{\text{STBY}}$	I	
84	VCC	—	Power input terminal. EVER +3.3 V.
85	XTAL	I	Crystal oscilator input terminal. 20 MHz.
86	EXTAL	I	
87	VSS	—	GND.
88	fO	O	Not used. (System clock output for external device)
89	VCC	—	Power input terminal. EVER +3.3 V.
90	$\overline{\text{AS}}$	—	Not used. (Address strobe)
91	$\overline{\text{RD}}$	O	Lead signal output terminal for bus control.
92	$\overline{\text{HWR}}$	O	“H” write signal output terminal for bus control.
93	$\overline{\text{LWR}}$	O	“L” write signal output terminal for bus control.
94	$\overline{\text{LAS}}$	O	Lower column address strobe output terminal.
95	PFO	O	Not used. (Bus request acknowlege)
96	HRST	O	Reset signal output terminal for LOADER.
97	CS_SO	O	Serial control data output.
98	CS_SI	I	Serial control data input.
99, 100	VSS	—	GND.
101	CS_SCK	O	Serial clock terminal.
102	TEST MUTE	O	Test terminal. (Pull up)
103	AVCC	—	Power supply input terminal for A/D. EVER +3.3V.
104	VREF	I	Reference voltage input terminal for A/D. EVER +3.3V.
105	F/ST/?	—	Not used.
106	$\overline{\text{WRITE}}$	I	$\overline{\text{WRITE}}$ input pin.
107	RY/$\overline{\text{BY}}$	I	RY/$\overline{\text{BY}}$ input pin.
108	RDY_HIF	I	LOADER READY signal input terminal.
109	SW	I	NT/PAL sw input pin.
110	C2PO	I	C2 Flag inputpin.
111	EMPH	I	Deemphasis monitor input pin.
112	SV2	O	Voltage output for S2 terminal. S1 = 5V S2 = 2.5 V Normally = 0 V.
113	AVSS	—	GND.
114	VSS	—	
115	CS4228 CS	O	CS4228 CS output pin.
116	RGB/YC	I	RGB/YC input pin.
117	CS49326 INT	I	CS49326 INT select input pin.

Pin No.	Pin Name	I/O	Description
118	CS49326 CS	O	CS49326 CS chip select output pin.
119	AMUTE	O	Audio signal (analog audio) output mute control terminal ON = H OFF = L.
120	CHECK	O	Detection of check.
121	A MUTE AC-3	O	Mute output pin.
122	CS8415 CS	O	CS8415 CS output pin.
123, 124	MD0, 1	I	Operation mode control Fixed to L.
125	MD2	I	Operation mode control Fixed to H.
126	$\overline{\text{CAS}}$	O	Column address strobe output pin.
127	TEST	O	Detection of TEST. (Pull down)
128	PG0	O	Detection of PG0.

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground.
2-5	SBD_7-4	I/O	SDRAM data bus 7-4.
6	VDD	—	Power. (3.3V)
7-10	SBD_3-0	I/O	SDRAM data bus 3-0.
11	VSS	—	Ground.
12-19	CH_DATA_0-7	I	Channel data bus 0-7.
20	VSS	—	Ground.
21	TOS_N	I	Top of sector.
22, 23	NC	I	Not connected.
24	ERROR_N	I	Error.
25	VDD	—	Power. (3.3V)
26	AVALID_N	I	Audio data valid.
27	VVALID_N	I	Video data valid. (Not connected)
28	DCK	I	Data clock.
29	VREQ_N	O	Video transfer request. (Not connected)
30	AREQ_N	O	Audio transfer request.
31, 32	NC	—	Not connected.
33	VSS	—	Ground.
34-39	A_8-3	I	Address 8-3.
40	VDD	—	Power. (3.3V)
41	NC	—	Not connected.
42	VDD	—	Power. (3.3V)
43-45	A_2-0	I	Address 2-0.
46	VSS	—	Ground.
47-54	D_7-0	I/O	Host data bus 7-0.
55	VSS	—	Ground.
56	SYSCLK	I	System clock.
57	RESET_N	I	Reset.
58	DREQ_N	O	DMA transfer request.
59	INTR_N	O	Interrupt.
60	BUSMODE	I	Busmode. (Pull down)
61	VDD	—	Power. (3.3V)
62	RDY_N	O	Ready. (Not connected)
63	READ_N	I	Read indicator.
64	WRITE_N	I	Write indicator.
65	WAITIWTN_N	I/O	Wait.
66	VSS	—	Ground.
67	AS_N	—	Not connected.
68	CS_N	I	Chip select.
69	VS	O	Vertical synchronization.
70	HS	O	Horizontal synchronization.

Pin No.	Pin Name	I/O	Description
71	VDD	—	Power. (3.3V)
72	OSD_ACTIVE	O	On screen display active. (Not connected)
73, 74	PD_0, 1	O	Pixel data output bus 0, 1.
75	VSS	—	Ground.
76-78	PD_2-4	O	Pixel data output bus 2-4.
79	VDD	—	Power. (3.3V)
80	NC	—	Not connected.
81	VSS	—	Ground.
82-84	PD_5-7	O	Pixel data output bus 5-7.
85	VSS	—	Ground. (Not connected)
86	BLANK	O	Blank. (composite)
87	CREF	O	Chroma reference for pixel data. (Not connected)
88-91	EXT_OSD_0-3	I	External OSD palette selection bus 0-3. (Not connected)
92	NC	O	Not connected.
93	VDD	—	Power. (3.3V)
94	ACLK_441	I	Audio input clock for 44.1kHz*N.
95	ACLK_48	I	Audio input clock for 48kHz*N.
96	ACLK_32	I	Audio input clock for 32kHz*N.
97	VSS	—	Ground.
98	CD_BCLK	I	CD-Serial DAC bit clock.
99	CD_LRCLK	I	CD-Left right clock.
100	CD_ACLK	I	CD-External audio clock. (Not connected)
101	CD_ASDATA	I	CD-Audio serial data line.
102	SPDIF_IN	I	Sony/Philips data interface-input.
103	A_ACLK	O	Output audio clock. (Not connected)
104	VDD	—	Power. (3.3V)
105	BCLK	O	Serial DAC bit clock.
106	LRCLK	O	Serial DAC left right clock.
107	ASDATA	O	Audio serial data line.
108, 109	NC	O	Not connected.
110	VSS	—	Ground.
111	SPDIF_OUT	O	Sony/Philips data interface output.
112	AUDIO_SYNC	O	Audio sync strobe. (Not connected)
113, 114	TM1, TM0	I	Test mode 1, 0. (Pull down)
115	ZTEST	I	Test mode pin. (Pull up)
116	SCAN_TE	I	Scan test mode pin. (Not connected)
117	PREQ_N	O	PCM FIFO request. (Not connected)
118	VDD	—	Power. (3.3V)
119, 120	SBD_15, 14	I/O	SDRAM data bus 15, 14.
121	NC	—	Not connected.
122	SBD_13	I/O	SDRAM data bus 13.

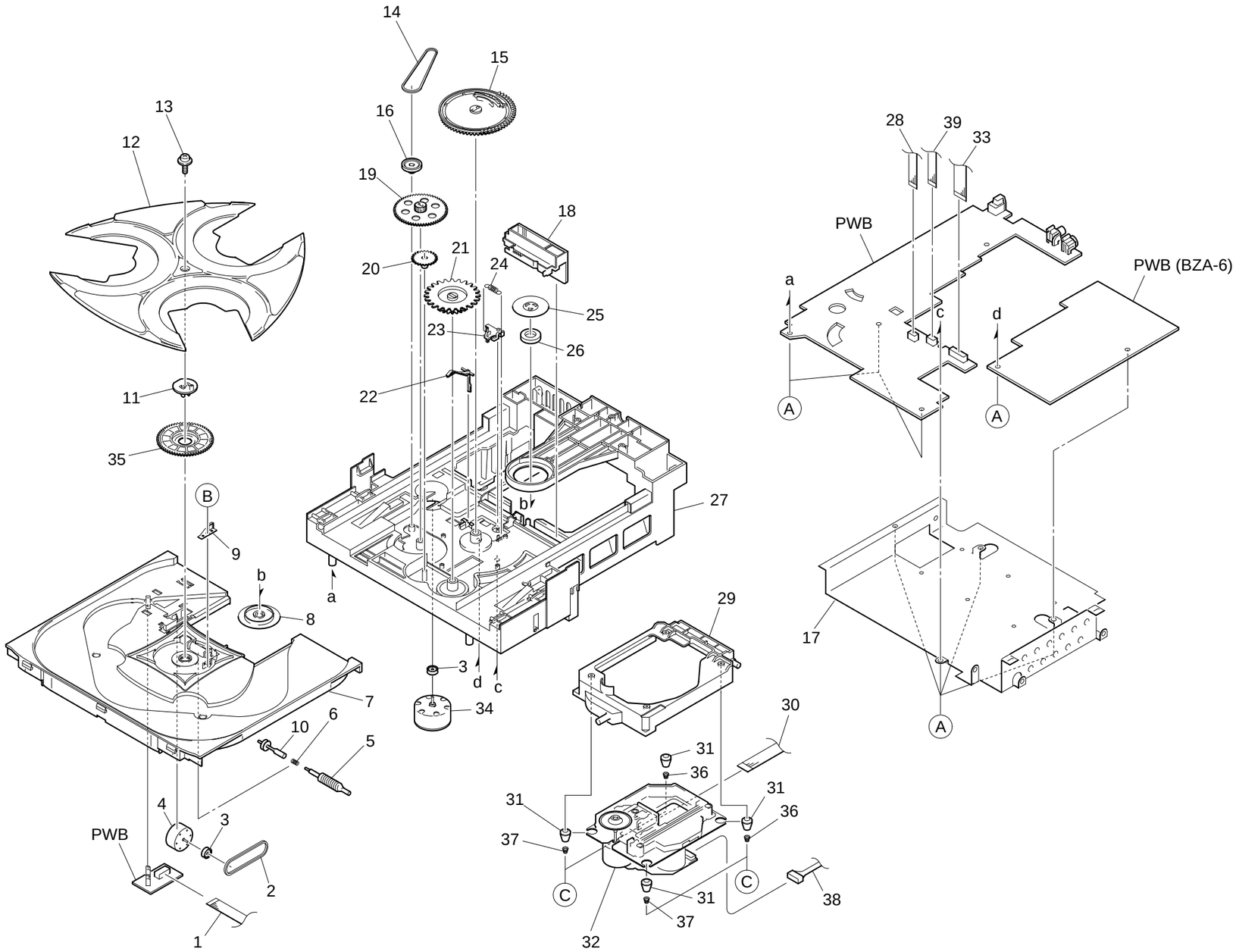
Pin No.	Pin Name	I/O	Description
123	VSS	—	Ground.
124-126	SBD_12-10	I/O	SDRAM data bus 12-10.
127	VDD	—	Power. (3.3V)
128, 129	SBD_9, 8	I/O	SDRAM data bus 9, 8.
130	SCLK	O	SDRAM 81MHz clock.
131	VSS	—	Ground.
132-134	SBA_9-7	O	SDRAM address bus 9-7.
135	VDD	—	Power. (3.3V)
136-138	SBA_6-4	O	SDRAM address bus 6-4.
139	VSS	—	Ground.
140-142	SBA_3-1	O	SDRAM address bus 3-1.
143	VDD	—	Power. (3.3V)
144	SBA_0	O	SDRAM address bus 0.
145, 146	SBA_10, 11	O	SDRAM address bus 10, 11.
147	VSS	—	Ground.
148	SCS1_N	O	Chip select for second DRAM.
149	SCS_N	O	Chip select for SDRAM.
150	SRAS_N	O	SDRAM row address strobe.
151	VDD	—	Power. (3.3V)
152	SCAS_N	O	SDRAM column address strobe.
153	SWE_N	O	SDRAM write enable.
154	SDQM	O	SDRAM control pin.
155	VSS	—	Ground.
156	PLLVDD	—	Power-phase locked loop for SDRAM.
157	NC	—	Not connected.
158	PLLVSS	—	Phase locked-loop ground pin.
159	VDD	—	Power. (3.3V)
160	NC	—	Not connected.

Pin No.	Pin Name	I/O	Description
1	AVDD	—	Power Supply. (3.3 V)
2-4	P5-7	I	Pixel Port.(Digital video signal in)
5-9	P8-12	I	Pixel Port.(Conneted to Ground.)
10	GND	—	Ground Pin.
11	AVDD	—	Power Supply. (3.3 V)
12-14	P13-15	I	Pixel Port.(Conneted to Ground.)
15	$\overline{\text{HSYNC}}$	I	$\overline{\text{HSYNC}}$ Control Signal.
16	$\overline{\text{VSYNC}}$	I	$\overline{\text{VSYNC}}$ Control Signal.
17	$\overline{\text{BLANK}}$	I	Video Blanking Control Signal.(Pull down)
18	ALSB	I	TTL Address Input.(Pull up)
19	GND	—	Ground Pin.
20	AVDD	—	Power Supply. (3.3 V)
21	GND	—	Ground Pin.
22	$\overline{\text{RESET}}$	I	The input resets the on chip timing generator and sets the ADV7170/ADV7171 into default mode.
23	SCLOCK	I	MPU Port Serial Interface Clock Input
24	SDATA	I/O	MPU Port Serial Data Input/Output
25	COMP	O	Compensation Pin.(Pull up)
26	CHROMA	O	RED/S-Video C/V Analog Output
27	LUMI	O	GREEN/S-Video Y/Y Analog Output
28	AVDD	—	Power Supply. (3.3 V)
29	GND	—	Ground Pin.
30	AVDD	—	Power Supply. (3.3 V)
31	B/COMP/U	O	BLUE/Composite/U Analog Output
32	COMPOSITE	O	PAL/NTSC Composite Video Output.
33	VREF	I/O	Voltage Reference Input for DACs or Voltage Reference Output.(Pull up)
34	RSET	I	A 150 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the video signals.
35	SCRESET/RTC	I	This pin is subcarrier reset.
36	TTXREQ	O	Teletext Data Request Signal/Defaults to GND when Teletext not Selected.(Pull down)
37	TTX	I	Teletext Data/Defaults to VAA when Teletext not Selected.(Pull up)
38-42	P0-4	I	Pixel Port.(Digital video signal in)
43	GND	—	Ground Pin.
44	CLOCK	I	TTL Clock Input.Requires a stable 27 MHz reference Clock for standard operation.

Pin No.	Pin Name	I/O	Description
1	VD1	—	Digital positive supply. (+2.5V)
2	DGND1	—	Digital ground.
3	AUDATAA3/XMT958	O	SPDIF transmitter output,digital audio output. (Not connected)
4	$\overline{WR}$	I	Host write storobe. (Pull down)
5	$\overline{RD}$	I	Host parallel output enable. (Pull up)
6	SCDIN	I	SPI serial control data input.
7	SCCLK	I	Serial control port clock.
8-11	GPI07-04	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
12	VD2	—	Digital positive supply. (+2.5V)
13	DGND2	—	Digital ground.
14	T/M GPI03	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
15	C GPI02	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
16	B GPI01	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
17	A GPI00	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
18	$\overline{CS}$	I	Host parallel chip select,host serial SPI chip select.
19	SCDIO	O	Serial control port data input and output pin.
20	$\overline{ABOOT/INTREQ}$	O	Automatic boot enable,control port interrupt request.
21	$\overline{EXTMEM}$	I	External memory chip select. (Pull up)
22	SDATAN1	I	PCM audio data input number one.
23	VD3	—	Digital positive supply. (+2.5V)
24	DGND3	—	Digital ground.
25	SCLKLN1	I	PCM audio input bit clock.
26	LRCLKN1	I	PCM audio input sample rate clock.
27	SDATAN2	I	PCM audio data input number two.
28	SCLKN2	I	PCM audio input bit clock.
29	LRCLKN2	I	PCM audio input sample rate clock.
30	CLKIN	I	Master clock input.(Pull down)
31	CLKSEL	I	DSP clock slect.(Pull down)
32	FILT2	—	Phase-locked loop filter.
33	FILT1	—	Phase-locked loop filter. (Pull down)
34	VA	—	Analog positive supply. (+2.5V)
35	AGND	—	Analog ground.
36	$\overline{RESET}$	I	Asynchronous active-low master reset input.
37	DD	—	This pin is reserved. (Pull up)
38	DC	—	This pin is reserved. (Pull up)
39	AUDATA2	O	Digital audio output 2.

Pin No.	Pin Name	I/O	Description
40	AUDATA1	O	Digital audio output 1.
41	AUDATA0	O	Digital audio output 0.
42	LRCLK	I	Audio output sample rate clock.
43	SCLK	I	Audio output bit clock.
44	MCLK	I	Audio master clock. (Pull down)

MECHANICAL EXPLODED VIEW-1/1



MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-672-010		F-CABLE,5P 1.25 210MM WHITE N
2	84-ZG1-225-010		BELT,SQ1.0-63.3
3	84-ZG1-267-010		PULLEY,LOAD MO 8
4	87-045-364-010		MOTOR(BCH3B14)
5	84-ZG1-238-010		GEAR,WORM N
6	84-ZG1-248-010		SPR-C,WORM
7	8B-ZG9-001-010		TRAY,GRA
8	8A-ZGD-202-010		HLDR,MAGNET DVD
9	84-ZG1-259-010		SPR-P,WORM
10	84-ZG1-239-210		PULLY,WORM N
11	84-ZG1-288-010		LEVER,TT NAT
12	8B-ZG9-002-010		TURN TABLE,DVD GRA
13	87-B10-331-010		VF+3-6 BLK
14	84-ZG1-209-010		BELT,SQ1.8-117.7
15	84-ZG1-203-410		GEAR,MAIN CAM
16	84-ZG1-207-010		PULLEY,RELAY
17	8A-ZGD-209-110		HLDR,POWER AC3 PWB
18	84-ZG1-204-310		SLIDER,MECHA CAM
19	84-ZG1-274-010		GEAR,RELAY 8
20	81-ZG1-291-110		GEAR,TRAY RELAY NO3
21	84-ZG1-205-210		GEAR,TRAY (*)
22	8A-ZGD-212-010		LEVER,SW GRA
23	84-ZG1-266-010		LEVER,CAM 8
24	84-ZG1-211-010		SPR-E CAM S
25	81-ZG1-255-110		PLATE,MAGNET MK2
26	83-ZG3-604-010		RING,MAG 2
27	8B-ZG9-200-010		CHAS,MECHA DVD NAT
28	8B-ZG9-610-010		FF-CABLE,7P 1.00 70MM
29	8A-ZGD-201-010		HLDR,MECHA DVD
30	8A-ZGD-605-010		FF-CABLE,33P 0.5 65MM
31	8A-ZGD-206-010		DMPR,MECHA DVD
32	M8-AZK-J92-070		MECHA,DV32F2
33	8B-ZG9-609-010		FF-CABLE,16P 1.00 70MM
34	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
35	84-ZG1-269-010		GEAR,MAIN TT 4
36	8A-ZGD-208-010		SPR-C,DVD B
37	8A-ZGD-207-010		SPR-C,DVD A
38	8A-ZGD-607-010		CONN ASSY,9P PH
39	8B-ZG9-611-010		FF-CABLE,6P 1.00 70MM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-981-010		BVT2+3-6 BLK
C	8A-ZGD-205-010		S-SCREW,MECHA DVD

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

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